l'm not robot!





10<sup>th</sup> Maths (CBSE) Coordinate Geometry Extra Questions

Class X	<b>S</b>
Mathematics	
Coordinate	
Geometry	
Part <sup>3</sup> Exercise 7.2	

Ans. (i)In AABD and A ADC

AD bisects ∠A

 $\Rightarrow \angle BAD = \angle CAD$  $\angle ADC = \angle ADB = 90^{\circ}$  $AD = AD \qquad (Common Side)$ 

So,  $\triangle ABD \cong \triangle ADC$  (by the SAS congruence rule)

AB = AC(CPCT) .: ABC is isosceles



Q.6 In an isosceles triangle ABC with AB = AC, D and E are points on BC such that BE = CD. Show that AD = AE. (3 Marks)





Ans. In & ABD and AACE,

AB = AC (Given) ..(1)

 $\angle B = \angle C$  (Angles opposite to equal sides) ...(2)



Coordinate geometry class 10 cbse mcert solutions 7.2. Coordinate geometry class 10 cbse pdf. Coordinate geometry class 10 cbse mcert solutions. Coordinate geometry class 10 cbse mcert solutions. Coordinate geometry class 10 cbse mcert solutions.

Made with lots of love and caffeine © 2022, Teachoo. All rights reserved. NCERT Solutions for Class 10 maths chapter 7 Coordinate geometry has been developed as an algebraic tool for studying the geometry of figures. It helps us to study geometry using algebra, and understand algebra with the help of geometry thus, making it widely applicable in fields such as physics, engineering, navigation, and art. The distance of a point from the x-axis is called its y-coordinate, or ordinate. These are some of the most basic and important terms associated with coordinate geometry that kids must understand. NCERT solutions chapter 7 is a very important chapter 7 is a very important chapter as it helps students to find the distance between the two points whose coordinates are given, and to find the area of the triangle formed by three given points. Additionally, kids also learn how to find the coordinates of the point which divides a line segment joining in a given ratio. Children must be well-versed with this lesson as it makes its way into several sister topics such as constructions. NCERT Solutions Chapter 7 also lays a foundation for the further study of topics related to graphs in higher classes and also you can find some of these in the exercises given below. NCERT Solutions for Class 10 Maths Chapter 7 PDF Coordinate Geometry is the branch of mathematics that deals with cartesian coordinates. Usually, this system is used to manipulate the equations of various two-dimensional figures such as triangles, squares, circles, etc. The NCERT solutions for class 10 maths chapter 7 Coordinate Geometry help kids in defining and representing geometrical shapes in a numerical information from them by drawing logical conclusions. The free PDF of NCERT Solutions Class 10 Maths Chapter 7 Coordinate Geometry is given below. Download Class 10 Maths NCERT Solutions Chapter 7 Coordinate Geometry Coor computations in the cartesian plane. Thus, it is highly advised that kids should apply these formulas to sums and practice them regularly so as to recall the required concept whenever required. Children should also have a strong foundation of the Pythagoras theorem as it is used in certain derivations. The analysis of each exercise of NCERT Solutions Class 10 Maths Chapter 7 Ex 7.2 - 10 questions Class 10 Maths Chapter 7 Ex 7.2 - 10 questions Class 10 Maths Chapter 7 Ex 7.2 - 10 questions Class 10 Maths Chapter 7 Ex 7.2 - 10 questions Class 10 Maths Chapter 7 Ex 7.2 - 10 questions Class 10 Maths Chapter 7 Ex 7.3 - 5 questions Class 10 Maths Chapter 7 Ex 7.2 - 10 questions Class 10 Maths Chapter 7 Ex 7.3 - 5 questions Class 10 Maths C NCERT solutions chapter 7 are the calculation of distance between two points on the cartesian plane, internal and external division of a total of 33 and the real-life applications. Total Questions: Class 10 Maths Chapter 7 Coordinate Geometry consists of a total of 33 and the real-life applications of these formulas. questions, of which 20 are fairly easy, 7 are moderately difficult, and 6 are long answer complicated sums. These problems are distributed across 4 exercises of this chapter 7 makes heavy use of three formulas namely, the distance formula, the section formula, and the area of a triangle. Before memorizing them it is necessary for kids to go through the theory and derivations of such formulas attempting problems in the scope of the cartesian plane would be very difficult. Thus, they are crucial and will be used in further topics to come. Some important formulas covered in NCERT solutions for class 10 maths chapter 7 are given below : Distance Formula : ((m1x2+m2x1)/m1+m2), (m1y2+m2y1)/m1+m2, (m1y2+m2NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Solutions for Class 10 Maths NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Chapter 7 NCERT Solutions for Class 10 Maths NCERT Solutions for Class 10 possible. These solutions act as guidelines for children to do the same and are used to give them a good understanding of the topic at hand. Do I Need to Practice all Questions of NCERT Solutions Coordinate Geometry multiple times can be very effective in understanding the key points. All these problems give a fresh perspective of topics and will help students learn how to find the distance between two points, and many more. As each sum is framed in a different way and targets a new aspect of the topic it becomes vital for kids to solve all problems. Which Topics are Important in NCERT Class 10 Chapter 7 Coordinate Geometry? Important topics of class 10 chapter 7 Coordinate Geometry? Important topics are Important topics are Important topics are Important topics are Important in NCERT Class 10 chapter 7 Coordinate Geometry? Important topics are Import students should practice them well. They can also attempt the solved examples and optional exercises to cover this subject matter in detail. How Many Questions are there in Class 10 Maths NCERT Chapter 7 Coordinate Geometry? The total number of questions in NCERT Class 10 Chapter 7 Coordinate Geometry is 33. Out of which 10 are in the 1st exercise, 10 in the 2nd, 5 in the 3rd, and 8 in the 4th exercise. They are both theoretical as well as practice in nature and are based on the cartesian plane along with the associated formulas. Apart from the exercise questions, students can also practice the solved examples to get an idea of the concepts. What are the important formulas in NCERT Class 10 Chapter 7 Coordinate Geometry? NCERT Class 10 chapter 7 consists of three important formulas, those being the distance formula, and the area of a triangle. Students need to spend ample time perfecting and memorizing these. This chapter also sees the use of certain formulas and properties that have appeared in earlier lessons and classes. Thus, if required it will be beneficial for kids to have a quick glance at those as well. How CBSE Students can solve the exercises of the NCERT Solutions Class 10 Maths Chapter 7 effectively? CBSE students can utilize NCERT Solutions Class 10 Maths Chapter 7 along with the optional exercise in order to cover all the topics. Students can also refer to the detailed solution set if they get stuck on any topic. In addition to that, the theory section explains each and every concept in a stepwise manner hence, kids should revise this entire segment before solving the exercises. To boost their learning kids can also refer to exam papers from previous years' board examinations. 1. Find the distance between the following pairs of points: (i) \$\left( 2,3 \right),\left( 4,1 \right)\$ and \$\left( 3,1 \ri  $\{x_{2}\} \right]^{1}=2$  Thus, the distance between  $\left\{\left\{y_{1}\right\}=3$  Thus, the distance between  $\left\{\left\{y_{1}\right\}=3 \right\}$  Thus, the distance between \left\{\left\{y\_{1}\right\}=3 \right\} Thus, the distance between  $\left\{\left\{y_{1}\right\}=$ right and left(-5,7 right) and left(-1,3 right) and left(-1,right. Distance between two points is given by the Distance formula  $=\left\{\frac{1}{-1,3}\right\}$  is given by,  $d=\left\{\frac{1}{-1,3}\right\}$ .  $(-1 \right) \right)^{2}+{(\left(-4 \right)^{-3})^{-1}, (iii) (-1, 3 \right)^{-1}, (iii)$  $\left( \frac{x}_{1} = \frac{x}_{2} \right) = 0 \ x =$ the distance between  $\left[\frac{1}{a}^{2}\right] + {\left[\frac{1}{a}^{2}\right] + {\left[\frac{1}{a}$  $\{b^{2}\}\$  units.2. Find the distance between the points \$\left( a,b \right)\$ and \$\left( -a,-b \right)\$ is \$2\sqrt{{a}^{2}}+{b}^{2}}\$ units.2. Find the distance between the two towns \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points between the points between the two towns \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points between the points between the distance between the two towns \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points between the two towns \$A\$ and \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points between the points between the two towns \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points between the two towns \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points between the two towns \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points between the two towns \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points between the two towns \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points between the two towns \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points between the two towns \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points between the two towns \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points between the two towns \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points \$A\$ and \$B\$ discussed in Section 7.2?Ans:Given that,Let the points \$A\$ and \$B\$ discussed in Section 7.2?  $(0,0 \right)$  and  $\left(\frac{1}-\frac{1}{1}$  $\{x \{1\}=0$$  Thus, the distance between  $\left\{\left(0, \frac{15}\right)^{1}\right\} = 0$ find the distance between the given towns \$A\$ and \$B\$. The positions of this town are \$A\left( 0,0 \right)\$ and \$B\left( 36,15 \right)\$ and \$B \left( 36,15 \right)\$ collinear.Ans:Given that,Let the three points be \$\left( 1,5 \right),\left( 2,3 \right), \left( 2,3 \right), C\left( 2,3 \right), C\lef  $\{x_{2}\} = 3$AB = \left\{\frac{1}{-2 \right} = 1 + \left\{\frac{1}{-2 \right}$  $\left\{ \frac{1}{2} \right\} = \left\{ \frac{1}{3} \right\} = \left\{ \frac{1}{3} \right\} = 2 \left\{ \frac{1}{3} \right\}$  $\left\{ \frac{1}{-2} \right\} = \left\{ \frac{1}{-2} \right\} = \left\{$ right are not collinear.4. Check whether left(2,3 right), left(2points be \$\left( 5,-2 \right), \left( 6,4 \right) \$ and \$\left( 7,-2 \right) \$ are the vertices of the triangle. Let \$A\left( 5,-2 \right), B\left( 6,4 \right), C\left( 7,-2 \right) \$ be the vertices of the given triangle. The distance between any two points is given by the Distance between any two points are the vertices of the given triangle. Let \$A\left( 5,-2 \right), B\left( 6,4 \right), B\left( 6,4 \right), B\left( 7,-2 \right), B  $\left\{ \frac{1}{2} + \left\{ \left( -6 \right)^{1} \right)^{2} + \left\{ \left( -6 \right)^{1} \right)^{2} + \left\{ \left( -6 \right)^{1} \right)^{2} + \left\{ \left( -2 \right)^{1} \right)^{2} + \left\{ \left( -1 \right)^{1} \right)^{2} + \left( -1 \right)^{1} + \left( -1 \right)^{1}$  $\left\{ \frac{1}{2} \right\} = \left\{ \frac{1}{3} \right\} = \left\{ \frac{1}{3}$ \right)}^{2}}\$\$=\sqrt{4+0}\$\$=2\$We can conclude that \$AB=BC\$. Since two sides of the triangle are equal in length, \$ABC\$ is an isosceles triangle.5. In a classroom, \$4\$ friends are seated at the points \$A,B,C\$ and \$D\$ are shown in the following figure. Champa and Chameli walk into the class and after observing for a few minutes Champa asks Chameli, "Don't you think \$ABCD\$ is a square?" Chameli disagrees. Using the distance formula, find which of them is correct. Ans: Given that, \$4\$ friends are seated at the points \$A,B,C,D\$To find, If they form square together by using distance formula From the figure, we observe the points \$A,\left(3,4 \right), B\left(6,7 \right), C\left(9,4 \right) \$ and  $D\left(\frac{x}{1}\right)^{1}$  are the positions of the four students. The distance between any two points is given by the Distance formula,  $d=\left(\frac{x}{1}\right)^{1}$  and  $B\left(\frac{x}{1}\right)^{1}$  $\frac{1}=3${\{x\}_{2}}=6${\{y\}_{1}}=4${\{y\}_{2}}=7$AB=\left(\frac{1}{2}\right)^{2}}\\ + \{\left(\frac{1}{2}\right)^{2}}\\ + \{\left(\frac{1}{2}\right)^{2}\right)^{2}}\\ + \{\left(\frac{1}{2}\right)^{2}\right)^{2}}\\ + \{\left(\frac{1}{2}\right)^{2}\right)^{2}\\ + \{\left(\frac{1}{2}\right)^{2}\right)^{2}}\\ + \{\left(\frac{1}{2}\right)^{2}\right)^{2}\\ + \{\left(\frac{1}{2}\right)^{2}\\ + \{\left(\frac{1}{2}\right)^{2}\right)^{2}\\ + \{\left(\frac{1}{2}\right)^{2}\\ + \{\left(\frac{1}{2}\right)^{2}\right)^{2}\\ + \{\left(\frac{1}{2}\right)^{2}\\ + \{\left(\frac{1}{2}\right)^{2}\right)^{2}\\ + \{\left(\frac{1}{2}\right)^{2}\\ + \left(\frac{1}{2}\right)^{2}\\ + \{\left(\frac{1}{2}\right)^{2}\\ + \left(\frac{1}{2}\right)^{2}\\ + \left(\frac{1}{2}\right)^{2}$  $\frac{1} = 6 \left\{ \left\{ \frac{1}{2} \right\} = 0 \left\{ \frac{1}{2} \right\} =$  $\left\{ x \right\} = 0 \\ x = 1 \\ \\ x =$  $\frac{1}=3${\{x_{1}\}=3${\{x_{2}\}=6${\{y_{1}\}=4$}{\{y_{2}\}=1$AB=\left(\frac{1}{2}\right)}=4${$ find the distance between the points  $A\left[\frac{1}=4\$ ,  $1\}=3\$ ,  $1\}=3\$ ,  $1\}=3\$ ,  $1\}=3\$ ,  $1\}=4\$ ,  $1\}=3\$ ,  $1\}=3\$ ,  $1\}=3\$ ,  $1\}=4\$ ,  $1\}=3\$ ,  $1]=3\$ , 1]=3\$AC\$ and \$BD\$ are also equal.\$\therefore ABCD\$ form a square and hence Champa was correct.6. Name the type of quadrilateral forms, if any, by the following points, and give reasons for your answer.(i) \$\left( -1,-2 \right),\left( -1,2 \right),\left( -3,0 \right),\left( -3,0 \right),\left( -3,0 \right),\left( -1,-2 \right), 1,0 iight {{}}=-1\$\${{x} {2}}=1\$\${{y} {2}}=0\$AB=\operatorname{v}{{}}^{2}}+{{\left(\left(-2 \times iight\right)\right)^{2}}}\$  $\left\{ x = 1 \right\} = 1 \left\{ \left\{ x = 1 \right\} = 0 \right\} \left\{ y = 1 \right\} = 0 \left\{ y$  $[\] = 137.5{x}_{1} = -1${x}_{2} = -3${y}_{2} = -2${D} = -3${y}_{2} = -2${D} = -3${y}_{2} = -3${y}_{2} = -3${y}_{2} = -3${y}_{2} = -3${y}_{2} = -2${D} = -2${D} = -3${y}_{2} = -2${D} = -3${y}_{2} = -2${D} = -3${y}_{2} = -2${D} =$ points  $A\left(\left(-1, 2 \right) \right) = 1$ diagonals are also the same length. \$\therefore \$The given points of the quadrilateral form a square.(ii) \$\left( -1, -4 \right), \left( distance between any two points is given by the Distance formula,  $d=\sqrt{\{\{y_{1}\}-\{\{x_{2}\}, ight\}}^{2}}\$  find the distance between the points  $A\left(\left\{x_{1}\right\}-\{\{y_{2}\}, ight\}\right)^{2}\right\}$  $\tight)^{2}+{\{(left(5-1)right)}^{2}} + \{(left(-6)right))^{2}\} + \{(le$  $\tint = 0 \\ \tint = 0 \\ \ti$  $-4 \left(1 \right)^{1} = -34\left(t, 1, -4, 1, \left(\frac{1}{1}\right)^{2}+{\left(\left(-4 \right)^{1}\right)^{2}}+{\left(\left(-4 \right)^{1}\right)^{2}}\right)^{2}}+{\left(\left(-4 \right)^{1}\right)^{2}}+{\left(\left(-2 \right)^{1}\right)^{2}}+{\left(\left(-2 \right)^{1}\right)^{2}}\right)^{2}}$ formed by using the above points.(iii) \$\left(4,5 \right), \left(4,3 \ formula,  $d=\left\{\left\{\left(\frac{x}{1}\right)^{1}\right\} - \left\{\left(\frac{y}{1}\right)^{2}\right\} + \left(\frac{y}{1}\right)^{2}\right\} + \left\{\left(\frac{y}{1}\right)^{2}\right\} + \left\{\left(\frac{y}{1}\right)^{2}\right\} + \left\{\left(\frac{y}{1}\right)^{2}\right\} + \left(\frac{y}{1}\right)^{2}\right\} + \left(\frac{y}{$  $\frac{1}^{2}} + {\left(\left(-1 \right)^{3} + \left(\left(-1 \right)^{3} + \left(-1 \right)^{3} + \left(\left(-1 \right)^{3} + \left(-1 \right)^$  $\time{t} = \frac{1} + \frac{1} \frac{1} + \frac{1} + \frac{1} = \frac{1} + \frac{$  $\left\{ \frac{1} = \frac{1}{2} \right\} = \left\{ \frac{1}{2} = \frac{1}{2}$  $\frac{1}=0 \\ (1,2 \right)^{2} + { (left( 2 \right))^{2} + ((1,2 \right))^{2} +$ \right)}^{2}}\$\$=\sqrt{36+16}\$\$=\sqrt{52}\$\$=2\sqrt{13}\$From the above calculation, the opposite sides of the quadrilateral are of same length \$\therefore \$The given points of the quadrilateral form a parallelogram. Question 7:Find the point on the \$x\$-axis which is equidistant from \$\left( 2,-5 \right)\$ and \$\left( -2,9 \right)\$. Ans: Given that, \$\left( 2,-5 \right)\$ and to find the equidistant from the points as \$A\left( 2,-5 \right)\$ and \$B\left( -2,9 \right)\$ and to find the equidistant point is on \$x\$-axis, the coordinates of the required point is on \$x\$-axis, the coordinates of the required point is a \$A\left( 2,-5 \right)\$ and \$B\left( -2,9 \right)\$ and to find the equidistant point \$P\$. Since the point is on \$x\$-axis, the coordinates of the required point is a \$A\left( -2,9 \right)\$ and \$B(left( -2,9 \right)\$ and \$B(lef of the form  $P\left[\frac{x}{2}\right]^{1}-{x} {2}} right)^{2}} right)^{2} right)^{2}} right)^{2}} right)^{2}} right)^{2}} right)^{2}} right)^{2}} right)^{2}} right)^{2} right)^{2}} right)^{2}} right)^{2} right)^{2}} right)^{2} right)^{2} right)^{2} right)^{2}} right)^{2} right)^{2}$  $= \left\{ \left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  and  $\left( x+2 \right)^{2} + 81 \right\}$  and  $\left( x+2)^{2} + 81 \right\}$  and  $\left( x+2)^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving, we get,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ x+2 \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2} + 81 \right\}$  solving,  $\left\{ \left( x+2 \right) \right\}^{2}$ Find the values of \$y\$for which the distance between the points \$P\left( 2,-3 \right)\$ and \$Q\left( 10,y \right)\$ is \$10\$units.Ans:Given that, \$P\left( 2,-3 \right)\$ is \$10\$units.Ans:Given that, \$P\left( 10,y \right)\$ is \$10\$units.Ans:Given that, \$P\left( 10,y \right)\$ is \$10\$units.Ans:Given that, \$P\left( 10,y \right)\$ is \$10\$units.Ans:Given that, \$P\left( 2,-3 \right)\$ is \$10\$u  $\left\{ \frac{1} - \frac{y}{2} \right\}$ are \$y=3\$ or \$y=-9\$.9. If \$Q\left( 0,1 \right)\$ is equidistant from \$P\left( 5,-3 \right)\$ and \$R\left( x,6 \right)\$, find the values of \$x\$The distance of \$QR\$ and \$PR\$.Ans:Given that,\$Q\left( 0,1 \right)\$ and \$R\$.SO  $PQ=QR\t distance between any two points is given by the Distance formula, d=\left\{\left\{\left(\frac{1}{1}-\frac{$  $-4 \ (1)^{2}} = \left\{ \left\{ \left( -x \ (x) \right)^{2} \right\} = \left( -x \ (x)^{2} \right)^{2} + \left\{ \left( -x \ (x)^{2} \right)^{2} \right\} + \left\{ (x)^{2} \right\} + \left( -x \ (x)^{2} \right)^{2} \right\} + \left\{ (x)^{2} \right\} + \left( -x \ (x)^{2} \right)^{2} \right\} + \left\{ (x)^{2} \right\} + \left( -x \ (x)^{2} \right)^{2} \right\} + \left\{ (x)^{2} \right\} + \left( -x \ (x)^{2} \right)^{2} \right\} + \left\{ (x)^{2} \right\} + \left( -x \ (x)^{2} \right)^{2} \right\} + \left( (x)^{2} \right)^{2} + \left( -x \ (x)^{2} \right)^{2} + \left( -x \ (x)^{2} \right)^{2} \right)^{2} + \left( (x)^{2} \right)^{2} + \left( (x)^{2} \right)^{2} + \left( (x)^{2} \right)^{2} \right)^{2} + \left( (x)^{2} \right)^{2}$  $\left\{ \left( -3 \right) \right\} = \left( -3 \right)^{1}, 0 \in \mathbb{C}^{1}, 0 \in \mathbb{C}^{$  $\tight)^{2}+{(\left(1-6 \right), \left(2\right)}, \tight)^{2}}+ \\ \tight)^{2}}+ \\ \tight)^{2}}+ \\ \tight)^{2}+ \\ \tight)^{2}+$  $\hat{1}=\frac{1}{1}$  is equidistant from the point  $\frac{16+25}$ , and  $\frac{16+25}{2}$  $t_{1} = \frac{1}{1} + \frac{1}{$  $\left\{ \left( \frac{1}{1} + \frac{1}{1}$ 5=0 the relation between \$x\$ and \$y\$ is given by \$3x+y-5=0 the point \$A\left( 4,-3 \right)\$ and \$B\left( 4,-3 \right)\$ and \$B\left( 4,-3 \right)\$ in the ratio \$2:3\$ Ans:Given that, The points \$A\left( 4,-3 \right)\$ and \$B\left( 4,-3 \right)\$ and \$B(left( 4,-3 \right)\$ and \$B(left( 4,-3 \right))\$ and \$B(le the required coordinate By section formula,  $P\left[\frac{x}{2}+n_{x}_{1}\right] = \left[\frac{rac{m_{x}_{1}}}{m+n_{right}}\right] = \left[\frac{rac{a-3}{5}}{right}\right] = \left[\frac{ra$ {5},\frac{15}{5} \right]\$\$=\left(1,3 \right)\$, therefore \$The coordinates of \$P\$ is \$P\left(1,3 \right)\$. Ans:Given that, The line segment joining \$\left(4,-1 \right)\$ and \$\left(-2,-3 \right)\$. Ans:Given that, The line segment joining \$\left(4,-1 \right)\$ and \$\left(-2,-3 \right)\$. Ans:Given that, The line segment joining \$\left(4,-1 \right)\$ and \$\left(-2,-3 \right)\$. Ans:Given that, The line segment joining \$\left(4,-1 \right)\$ and \$\left(-2,-3 \right)\$. Ans:Given that, The line segment joining \$\left(4,-1 \right)\$ and \$\left(-2,-3 \right)\$. Ans:Given that, The line segment joining \$\left(-2,-3 \right)\$. Ans:Given that, The lin line segment joining the points be  $A\left(\frac{1}{1}\right)$  and  $B\left(\frac{1}{1}\right)$  formula,  $P\left[\frac{x}{2}+n\{x \{1\}}\right] = \left[\frac{rac{n}{x} \{1\}}{m+n}\right] = \left[\frac{rac{n}{x} \{1\}}{m+n}$ right] ( $x_{2}+rac_{5}_{3} right)$ , therefore \$The coordinates of \$P\$ is \$P\left(2,-\frac\_{5}\_{3} right), From the diagram, the point \$Q\$ divides \$AB\$ internally in the ratio of \$2:1\$Hence \$m:n=2:1\$By section formula, \$Q\left({ $x_{2}}+n_{x_{2$  $\left[\frac{2}{3}\right] \left[\frac{2}{3}\right] \left[\frac{$ rectangular shaped school ground \$ABCD\$, lines have been drawn with chalk powder at a distance of \$1\text{ m}\$ each. \$100\$ flower pots have been placed at a distance of \$1\text{ m}\$ the distance of \$1\text{ m}\$ from each other along \$AD\$, as shown in the following figure. Niharika runs \$\frac{1}{4}\text{ m}\$ from each other along \$AD\$, as shown in the following figure. Niharika runs \$\frac{1}{4}\text{ m}\$ from each other along \$AD\$, as shown in the following figure. Niharika runs \$\frac{1}{4}\text{ m}\$ from each other along \$AD\$, as shown in the following figure. flag. Preet runs \$\frac{1}{5}\text{ th}\$the distance \$AD\$ on the eighth line and posts a red flag. What is the distance between both the flags? If Rashmi has to post a blue flag exactly halfway between the line segments joining the two flags, where should she post her flag? Ans: Given that, Niharika posted her green flag at a distance of \$P\$ which is  $\frac{1}{4}$  times 100=25\text{ m} from the starting point of the second line. The coordinate of \$P\$ is \$P\left( 2,25 \right) Preet posted red flag at \$\frac{1}{5}\times 100=20\text{ m} from the starting point of the second line. The coordinate of \$Q\$ is \$\left( 8,20 \right) Preet posted red flag at \$\frac{1}{5}\times 100=20\text{ m} from the starting point of the second line. The coordinate of \$Q\$ is \$\left( 8,20 \right) Preet posted red flag at \$\frac{1}{5}\times 100=20\text{ m} from the starting point of the second line. The coordinate of \$Q\$ is \$\left( 8,20 \right) Preet posted red flag at \$\frac{1}{5}\times 100=20\text{ m} from the starting point of the second line. The coordinate of \$Q\$ is \$\left( 8,20 \right) Preet posted red flag at \$\left( 8 points is given by the Distance formula,  $d=\left\{\left(\left\{x_{1}\right\}-\left\{x_{2}\right\}\right)^{2}\right\}$  $right)^{2}} = \left\{ \frac{1}{x} + \frac{1}}{m+n}, \frac{n}{right} = \left\{ \frac{x}{2} + n\left\{ \frac{x}{2} + n\left\{$ 

 $frac{1\left(2 \right)}{1+1}\right(1+1)$  (right) 1+1, (right) the points \$\left( -3,10 \right)\$ and \$\left( 6,-8 \right)\$ and \$\left( -1,6 \right)\$ and \$\left( -1,6 \right)\$ and \$B(+( -1,6  $P(eft(-1,6 \tau))$  the ratio of k:1 by section formula,  $P(eft(x,y \tau)) = \left[\frac{x}{2}\right] + n_{x}_{1}} = \frac{m_{x}}{m_{x}} = \frac$ ratio in which the line segment joining \$A\left(1,-5 \right)\$ and \$B\left(-4,5 \right)\$ and \$B(left(-4,5 \right))\$ and formula, P(left(x,y)=(1)) + (x,y) +zero. $\frac{5k-5}{k+1}=0$  axis divides it in the ratio of 1:1 bivision point,  $P=\left(\frac{1+1}{2},\frac{5+5}{2},\frac{5+5}{2},0\right)$ point of division is \$\left( -\frac{3}{2},0 \right),B\left( 4,y \right),C\left( 4,y \r \$y\$ The diagonals of the parallelogram bisect each other at \$0\$. Intersection point \$0\$ of diagonal \$AC\$ and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$divides these diagonals. So \$0\$ is the midpoint of \$AC\$, and \$BD\$, and midpoint of BD,  $O=\left(\frac{7}{2}\right)$  and  $4=\frac{7}{2}$ ,  $rac{5+y}{2}$  and  $4=\frac{5+y}{2}$ ,  $rac{5+y}{2}$  and  $4=\frac{5+y}{2}$ ,  $rac{5+y}{2}$ ,  $rac{5+y$ and \$y=3\$7. Find the coordinate of \$A\$ be \$A\left( 2,-3 \right)\$ The coordinate of \$B\$ is \$\left( 2,-3 \right)\$ and \$B\$ is \$\left( 2,-3 \right)\$ The coordinate of \$A\$ be \$A\left( 2,-3 \right)\$ The coordinate of \$A\$ be \$A\left( 2,-3 \right)\$ and \$B\$ is \$C\left( 2,-3 \right)\$ The coordinate of \$A\$ be \$A\left( 2,-3 \right)\$ and \$B\$ is \$C\left( 2,-3 \right)\$ The coordinate of \$A\$ be \$A \left( 2,-3 \right)\$ The coordinate of \$A\$ be \$A \left( 2,-3 \right)\$ The coordinate of \$A\$ be \$A \left( 2,-3 \right)\$ The coordinate of \$A \left( 2,-3 \right)\$ The co  $\term, \term, \term,$ P such that  $AP = \frac{3}{7}AB$  and P lies on the line segment AB. Ans: Given that, The coordinates are  $A\e^{3}^{AB}$  and P lies on the line segment AB. Ans: Given that, The coordinates are  $A\e^{2}^{AB}$  and  $P^{AB}$  $AP = \frac{4}{3}$  therefore AP:PB = 3:4 by section formula,  $P = \frac{4}{3}$  in the ratio of 3:4 by section formula,  $P = \frac{4}{3}$  by section formula, P $-2 \$  and  $-2 \$  and  $-2 \$  beft (-4 \right)+4\left (-2 \right)+4\le  $B\left(\frac{2,8 \right) \$  into four equal parts. Ans; Given that, The line segment \$A\eft( -2,2 \right) and \$B(eft( 2,8 \right) \ to four equal parts. Point \${{P}\_{1}}, {{P}\_{2}}, {{P}\_{3}} \ be the points that divide the line segment \$AB\$ into four equal parts. Point \${{P}\_{1}}, {{P}\_{2}}, {{P}\_{3}} \ segment \$AB\$ in the ratio of \$1:3\$, so, By section formula, \$P\left( x, y \right)=\left(  $x_{1}^{1}} = \left[ \frac{x_{1}}{1} \right] = \left[$  $\left\{ P_{2} \right\} divides the line segment AB$ in the ratio of $1:1$, so, By section formula, $P \left[ \frac{x}{2} \right] + n \left[ \frac{x}{$  $\left( 2 \right) = \left[ \frac{x_{2}}{m+n}, \frac{x_{$  $\left[\frac{2}{1}\right] = \left[\frac{1}{1}\right] = \left[\frac{1}{2}\right]^{1} \left[\frac{2}{1}\right]^{1} \left[\frac{2}{1}\right]^{1} \left[\frac{1}{2}\right]^{1} \left[\frac{1}{2}\right]^{1}$ 1,\frac{13}{2} \right)\$10. Find the area of the rhombus if its vertices are \$\left( 3,0 \right),\left( 4,5 \right),\left( -1,4 \right)\$ and \$\left( -2,-1 \right)\$ taken in order. (Hint: Area of a rhombus = \$\frac{1}{2}\$ (Product of its diagonals))Ans:Given that, The vertices of the rhombus are \$A\left( 3,0 \right),B\left( 4,5 \right),C\left( -1,4 \right)\$ and \$D\left( -2,-1 \right)}  $-2,-1 \text{ind}, \text{The area of the rhombus The distance between any two points is given by the Distance formula, $d=\left\{\left\{\left(\left\{x\right\}_{1}\right\}-\left\{x\right\}_{2}\right\}\right\}\right\}$  $\frac{1}{1} = \frac{1}{1} + \frac{1$  $\times BD = \rac{1}{2} times AC times BD = \rac{1}{2} times$ 2,-4 \right) \$Ans: Given that, The vertices of the triangle whose points are \$A\left( 2,3 \right), B\left( -1,0 \right), C\left( 2,-4 \right) \$To find, The area of the triangle  $\tight] Substitute the value of ${x}_{1}, $x_{2}, $in the above formula, Area of given triangle} (-4, -3, -1), $(-4, -3, -1)$  $\{y_{3}\$  in the above formula, Area of given triangle  $(-1 \right) = \frac{1}{2} \left( -3 \right) \left( -3 \right) \right) \left( -3 \right) \left( -3 \right) \left( -3 \right) \right) \left( -3 \right) \left( -$ \right)\$\$=32\$ square unitsArea of the triangle with vertices \$A\left( 5,2 \right), \left( 3,-2 \right), \left( 5,2 \right), \left( 5,1 \right), \left( 5,2 \right), \left( 5,1 \right), \left( 5,2 \right), \left( 5,2 \right), \left( 5,2 \right), \left( 5,2 \right), \left( 5,1 \right), \left( 5,2 \right), \l  $\left( \{y_{3} \ f( \{y_{1} \ f($  $\{x\}_{3}\$  in the above equation,  $\frac{1}{2}\$  in the vertices of the triangle are  $A\$  (ii)  $\left(k,-4\right), (-2,-1),
(-2,-1), (-2,-1),$ right, l=1,  $\{x\}$  {3}} in the above equation,  $\frac{1}{2}\left(-4-\left(-5 \right) - \frac{1}{2}\right) + \frac{1}{2} + \frac{1}{$  $\{y_{1}\} \right) = \frac{1}{2}\left(1 + \frac{1}{2}\right) + \frac{1}{2}\right) + \frac{1}{2}\left(1 + \frac{1}{2$ AB,BC,CA of the triangle respectively.  $D=\left(\frac{1}{2}\right)$  (right)  $=\left(\frac{1}{2}\right)$  (right) =\right]\$\$=\frac{1}{2}\left( 2,3 \right)\$=1\$ square unit\$\therefore \$Ratio of the triangle \$ABC\$ is \$1:4\$4. Find the area of the triangle \$ABC\$ is \$1:4\$4. Find the are  $\frac{1}{2}\left(\frac{1}{2}\right) + \frac{1}{\left(\frac{1}{2}\right)} + \frac{$  $\{y_{1}\}-\{\{y_{2}\} \text{ in the above formula, Area of }(-2,-2,-1) (-2,-1$ unitSubstituting the value of  $A\left[-2\\right] = \frac{1}{2}\left[-4\\right] + \frac{1}{2}\left[-2\\right] + \frac{1}{2}\left[-2\\right]$ \$ABCD=\$Area of \$\vartriangle ABC+\$Area of \$\vartriangle ACD\$\$=\frac{21}{2}+\frac{35}{2}\$\$ square units.5. You have studied in Class IX that a median of a triangle divides it into two triangles of equal areas. Verify this result for \$\vartriangle ABC\$ whose vertices are  $A\left(\left(\frac{4}{4}, -6\right)\right)$  and  $C\left(\frac{3}{2}\right)$  and  $C\left(\frac{3}{2}\right)$  and  $C\left(\frac{3}{2}, -2\right)$  an  $Aleft(4,6 \right), 1=1, 2\$  $4,0 \$  (1}{2}(-6-0 \right), (-6-0 \$AD\$ of the triangle divides the triangle into two triangles of equal areasExercise (7.4)1.Determine the ratio in which the line \$2x+y-4=0\$ divides the line \$2x+y-4=0\$ divides the line \$4\left(2,-2 \right)\$ and \$B\left(3,7 \right)\$. determine, The ratio The given line 2x+y-4=0 divides the line segment joining the points  $A\left[\frac{1}\right]$  in a ratio of k:1 at the point C by section formula,  $P\left[\frac{1}\right]$  in a ratio of k:1 at the point C by section formula,  $P\left[\frac{1}\right]$  in a ratio of k:1 at the point C by section formula,  $P\left[\frac{1}\right]$  in a ratio of k:1 at the point C by section formula,  $P\left[\frac{1}\right]$  in a ratio of k:1 at the point C by section formula,  $P\left[\frac{1}\right]$  in a ratio of k:1 at the point C by section formula,  $P\left[\frac{1}{2}\right]$  and  $B\left[\frac{1}{2}\right]$  in a ratio of k:1 at the point C by section formula,  $P\left[\frac{1}{2}\right]$  and  $B\left[\frac{1}{2}\right]$  in a ratio of k:1 at the point C by section formula,  $P\left[\frac{1}{2}\right]$  and  $B\left[\frac{1}{2}\right]$  and  $B\left[\frac{1}{$ get,  $\frac{6k+4+7k-2-4k-4}{k+1}=0$  divides the line joining two points  $\frac{1,2}{right}$  and  $\frac{1,2}{right}$  are collinear. Ans: Given  $\frac{1,2}{right}$  are collinear. Ans: Given  $\frac{1,2}{right}$  are collinear. Ans: Given  $\frac{1,2}{right}$  and  $\frac{1,2}{right}$  are collinear. Ans: Given  $\frac{1,$ that, The points  $A\left(\frac{1}{2}\right)$  the points are collinear. then the area of the triangle formed by these points is equal to zero. Area of the triangle  $=\frac{1}{2}\left(\frac{1}{2}\right)^{1} \left(\frac{y_{3}}{3}\right)^{1} \left(\frac{x_{3}}{3}\right)^{1} \left(\frac{x_{3}}$  $\{y\} = \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \right) \left( \frac{1}{2} \right) \left( \frac{$ \$x+3y-7=0\$3. Find the center of the circle passing through the points \$\left( 6,-6 \right), \left( 3,-7 \right) and \$\left( 3,-7 \right), C\left( 3,-7 \ri points A,B,C is the same since they form the radius of the circle. The distance between any two points is given by the Distance formula, 
$d=\left\{\left(\left\{x_{1}\right\}-\left\{x_{2}\right\}\right)^{2}\right\}+\left(\left(\left\{x_{1}\right\}-\left\{x_{2}\right\}\right)^{2}\right)^{2}\right\}+\left(\left(\left\{x_{1}\right\}-\left\{x_{2}\right\}\right)^{2}\left(\left\{x_{1}\right\}-\left\{x_{2}\right\}\right)^{2}\right)^{2}\right)^{2}\right)^{2}\right)^{2}\right)^{2}\right)^{2}\right)^{2}\right)^{2}\right)^{2}\right)^{2}\right)^{2}\right)^{2}\right)^{2}\right)^{2}\right)^{2}\left(x_{1}\right)^{2}\right)^{2}\left(x_{1}\right)^{2}\left($  $\{ \left( x - x \right) \right)^{2} + \{ \left( x - x \right)^{2} + x \right)^{2} + \{ \left( x - x \right)^{2} + x \right)^{2} + \{ \left( x - x \right)^{2} + x \right)^{2} +$  $(1) Similarly, $OA=OC$ since it represents radius \sqrt{{(left(x-6 \right)}^{2})} = \sqrt{{(left(x-3 \right)}^{2})} = \sqrt{{(left(y-3 \righ$  $\{\{y\}^{2}\}+36+12y=\{\{x\}^{2}\}+9-6x+\{\{y\}^{2}\}+49+14y$ .....(2) By adding (1) and (2), w get, \$10y=-20\$\$y=-2\$Substituting \$y=-2\$ in the equation (1), we get, \$3x-2=7\$\$3x=9\$\$x=3\$\$\therefore \$The center of the circle is \$C\left(3,-2 \right)\$.4. The two opposite  $get, \{\{x\}^{2}\}+36-12x+\{\{y\}^{2}\}+36+12y=\{\{x\}^{2}\}+9-6x+\{\{y\}^{2}\}+9-6y\\$ vertices of a square are \$\left( -1,2 \right)\$ and \$\left( 3,2 \right)\$. Find the coordinates of the two other two vertices Ans:Given that, The two opposite vertices of the square are \$A\left( 3,2 \right)\$. Find the coordinates of the two other two vertices Ans:Given that, The two opposite vertices of the square are \$A\left( 3,2 \right)\$. Find the coordinates of the two other two vertices Ans:Given that, The two opposite vertices of the square are \$A\left( 3,2 \right)\$. Find the coordinates of the two other two vertices Ans:Given that, The two opposite vertices of the square are \$A\left( 3,2 \right)\$. Find the coordinates of the square are \$A\left( 3,2 \right)\$. Find the co  $\tion the bit ance between any two points is given by the Distance formula, d=\left\{x_{1}\right\} + \left\{\left(x_{1}\right)^{2}\right\} + \left(x_{1}\right)^{2}\right\} + \left\{\left(x_{1}\right)^{2}\right\} + \left(x_{1}\right)^{2}\right\} + \left\{\left(x_{1}\right)^{2}\right\} + \left\{\left(x_{1}\right)^{2}\right\} + \left(x_{1}\right)^{2}\right\} + \left(x_{1}\right)^{2}\right\} + \left(x_{1}\right)^{2}\right\} + \left(x_{1}\right)^{2}\right)^{2}$  $by, \\ t_{\{\{ (x-1 \times y)^{2}\} + ((y-2 \times y)^{2}) + ((y-2 \times y)^{2})^{2} + ((y-2 \times y)^{2})^{$  $\operatorname{B}(\operatorname{AB})^{2}+{(\left(AC \right)}^{2})^{2}}+{(\left(AC \right)}^{$ \$D\left(1,4 \right)\$5. The class X students of a secondary school in Krishinagar have been allotted a rectangular plot of land for their gardening activity. Saplings of Gulmohar are plotted on the boundary at a distance of \$1\text{ m}} sow seeds of flowering plants on the remaining area of the plot. (i) Taking \$A\$ as origin, find the coordinates of the vertices of the triangleAns:Given that,Saplings are plotted \$1\text{ m}\$ from each otherBy taking \$A\$ as origin, find the coordinates are P(1, 1), Q(1, 1), Q2-5 \right)+3\left( 5-6 \right)+6\left( 6-2 \right),R\left( 6,5 \r do you observe? Ans: Given that, Saplings are plotted  $1\text{m}\$  from each other Taking \$C\$ as origin, \$CB\$ as  $y^{1}\$ , right),  $\left( \{y_{2}\} - \{y_{3}\} \right)$  ${x}_{2}\eft( {y}_{1}\right) + {x}_{2}\right) + [y]_{1}} (y_{1}) + [y]_{2}\right) + [y]_{2$ \$The coordinates are \$P\left( 4,6 \right),Q\left( 3,2 \right),R\left( 6,5 \right),R\left( 7,2 \right),R\le {AC}=\frac{1}{4}\$. Calculate the area of the \$\vartriangle ADE\$ and compare it with the area of \$\vartriangle ABC\$. (Recall the converse of basic proportionality theorem and Theorem 6.6 related to Ratio of areas of two similar triangles.)Ans:Given that, The vertices of \$\vartriangle ABC\$ are \$A\left( 4,6 \right), B\left( 1,5 \right), C\left( 7,2 \right), C\left( 7,2 \right), B(recall the converse of basic proportionality theorem and Theorem 6.6 related to Ratio of areas of two similar triangles.)Ans:Given that, The vertices of \$\vartriangle ABC\$ are \$A\left( 4,6 \right), B\left( 1,5 \right), C\left( 7,2 \right) \right)\$\frac{AD}{AB}=\frac{AE}{AC}=\frac{1}{4}\$To calculate the area of \$\vartriangle ADE\$ and compare it with \$\vartriangle ABC\$ From the diagram, we observe that \$D\$ and \$AC\$ respectively so that they divide the line segment \$AB\$ and \$AC\$ in the ratio of \$1:3\$By section formula,\$P\left(x,y)  $| frac{m{x}_{2}} + n{x}_{1}}{m+n}, frac{m{x}_{1}}{m+n}, frac{m{y}_{1}}{m+n}, frac{1}{p+1}}{m+n}, frac{1}{p+1}, frac{1}{p+1},$  $\frac{1}{2}\left[ \frac{1}{1+3}, \frac{1}{1+3}$  $\{y\} \{1\}-\{y\} \{2\} \right] = \frac{1}{2} \left[\frac{1}{2}\right] =$ unit.Area of \$\vartriangle ABC=\frac{1}{2}\left( 5-2 \right)+1\left( 2-6 \right)+7\left( 6-5 \right)+7\left( 6-5 \right)+7\left( 12-4+7 \right)\$=\frac{1}{2} square unitThus the ratio of areas of \$\vartriangle ABC\$ is \$1:16\$If a line segment in a triangle divides its two sides in the same ratio, then the line segment is parallel to the third side of the triangle. Thus these triangles are similar to each other. And the ratio between the areas of two triangles will be equal to the square of the triangles are similar to each other. And the ratio between the areas of two triangles will be equal to the square of the triangles will be equal to the square of the triangles. The triangles are similar to each other. And the ratio between the areas of two triangles will be equal to the square of the triangles. The triangles will be equal to the square of the triangles will be equal to the square of the triangles. The triangles will be equal to the square of the triangles. The triangles will be equal
to the square of the triangles will be equal to the square of the triangles. The triangles will be equal to the square of the triangles. The triangles will be equal to the square of the triangles. The triangles will be equal to the square of the triangles. The triangles will be equal to the square of the triangles. The triangles will be equal to the square of the triangles. The triangles will be equal to the square of the triangles. The triangles will be equal to the square of the triangles. The triangles will be equal to the square of the triangles. The triangles will be equal to the square of the triangles. The triangles will be equal to the triangles. The triangl and \$C\left( 1,4 \right)\$ be the vertices of the \$\vartriangle ABC\$(i) The median from \$A\$ meets \$BC\$ at \$D\$. Find the coordinates of point \$D\$Ans:Given that, \$A\left( 4,2 \right), B\left( 1,4 \right)\$ are the vertices of the given triangle. To find, The coordinates of point \$D\$ Let \$AD\$ be the median of the given triangle. So median \$D\$ is the midpoint of BC,  $p_i(i) = \left(\frac{7}{2},\frac{5+4}{2} \right) = \left(\frac{7}{2},\frac{5+4}{2} \right) = \left(\frac{7}{2},\frac{9}{2} \right) = \left(\frac{7}{2},\frac{9}{2} \right) = \left(\frac{7}{2},\frac{9}{2} \right) = \left(\frac{7}{2},\frac{9}{2} \right) = \left(\frac{7}{2},\frac{9}{2},\frac{9}{2} \right) = \left(\frac{7}{2},\frac{9}{2},\frac{9}{2},\frac{9}{2} \right) = \left(\frac{7}{2},\frac{9}{2}$ the vertices of the given triangle. AP:PD=2:1 for find, The coordinate of P point P divides AB in the ratio of m:n=2:1 by section formula,  $P\left[\frac{x}{2}+n\left\{x\right]^{1}\right\}$  and  $P\left[\frac{$  ${2+1}, frac{2}\left(\frac{11}{3}, frac{11}{3}, fra$ \$CR:RF=2:1\$. What do you observe?Ans:Given that,\$A\left( 4,2 \right),B\left( 6,5 \right),C\left( 1,4 \right),B\left( 1,4 \righ  $\left\{ \frac{1}}{m+n} \right] = \left[ \frac{x_{2}}{m+n} \right] =$  $\left\{ 2+1 \right, frac \{2+1\}, frac$  $right) = \left[ \frac{x}_{1}}{m+n} \right] = \left[ \frac{x}_{1}$ {3},\frac{11}{3} \right)\$The coordinates of \$Q\$ and that of \$R\$ is \$\left( \frac{11}{3}, \frac{11}{3 are representing the same point on the same plane which is the centroid of the triangle.(v) If  $A\left(\left\{x \\ 1\}, \{y \\ 1\}\right)$  and  $C\left(\left\{x \\ 1\}, \{y \\ 1\}\right)$  are the vertices of  $\$  and  $C\left(\left\{x \\ 1\}, \{y \\ 1\}\right)$  are the vertices of  $\$  $\hat{x}_{2}, \{y_{2}, \{y_{3}\}, \{$  $the centroid of this triangle be $0$ and $0$ divides the side $AD$ in the ratio of $2:1$By section formula, $P\left( x,y \right)=\left[ \frac{{x}_{1}}{(x,y \right)}=\left[ \frac{{x}_{1}}{(x,y \right)}=\left[$  ${2+1} (frac{{y} {3}}{3},frac{{y} {3}}{3},frac{{y} {3}}{3},frac{{y} {3}}{3},frac{{y} {1}}{3},frac{{y} {1}}{$  $\{x\}_{3}, (right)$  is  $(left[\fac{\{x\}_{1}}+{x}_{3}})$  is a rectangle formed by the points  $A(left(-1,-1 \right), B(left(5,-1 \right))$  and  $D(left(5,-1 \right))$  and S are the midpoints of AB, BC, CD and DA respectively. Is the  $quadrilateral PQRSsa square A rectangle Or a rhombus? Justify your answer. Ans: Given that, A\left(-1,-1\right), B\left(-1,-1\right), B\left(-1,-1\right),$ given by the Distance formula,  $d=\left\{\frac{1}-\frac{1}{4}\right\}$  bistance between the points P and Q is,  $PQ=\left\{\frac{1}-\frac{1}{4}\right\}$  bistance between the points P and Q is,  $PQ=\left[\frac{1}{4}\right]$  bistance between the points P and Q is,  $PQ=\left[\frac{1}{4}\right]$  bistance between the points P and Q is,  $PQ=\left[\frac{1}{4}\right]$  bistance between the points Q and Q is,  $PQ=\left[\frac{1}{4}\right]$  bistance between the points P and Q is,  $PQ=\left[\frac{1}{4}\right]$  bistance between the points P and Q is,  $PQ=\left[\frac{1}{4}\right]$  bistance between the points P and Q is,  $PQ=\left[\frac{1}{4}\right]$  bistance between the points P and Q is,  $PQ=\left[\frac{1}{4}\right]$  bistance between the points P and Q is,  $PQ=\left[\frac{1}{4}\right]$  bistance between the points P and P and PQ is  $PQ=\left[\frac{1}{4}\right]$  bistance between the points P and PQ is  $PQ=\left[\frac{1}{4}\right]$  bistance between the points PQ and PQ is  $PQ=\left[\frac{1}{4}\right]$  bistance between the points PQ and PQ is  $PQ=\left[\frac{1}{4}\right]$  bistance between the points PQ and PQ is  $PQ=\left[\frac{1}{4}\right]$  bistance between the points PQ and PQ is  $PQ=\left[\frac{1}{4}\right]$  bistance between the points PQ and PQ is  $PQ=\left[\frac{1}{4}\right]$  bistance between the points PQ and PQ is  $PQ=\left[\frac{1}{4}\right]$  bistance between the points PQ and PQ is  $PQ=\left[\frac{1}{4}\right]$  bistance between the points PQ and PQ is  $PQ=\left[\frac{1}{4}\right]$  bistance between the points PQ and PQ is  $PQ=\left[\frac{1}{4}\right]$  bistance between the points  $R^ is, QR=\left(\frac{1}{4}\right)^{1}, SR = \left(\frac{1}{4}\right)^{1}, SR = \left(\frac{1}{4}\right$  $P_ is,SP=\grt{\{(left(2+1)^{1-5})^{2}\}} = sqrt{\{(left(-1-(frac{3}{2})^{2})^{1-5})^{2}} + ((left(-1-(frac{3}{2})^{2})^{1-5})^{2})^{2}} + ((left(-1-(frac{3}{2})^{2})^{1-5})^{2})^{2}}$ is,\$QS=\sqrt{{\left( 2-2 \right)}^{2}}+{{\left( 4+1 \right)}^{2}}+\$= \$\$ rom the above calculation, we observe that all sides of the quadrilateral are of the same length but the diagonals are different lengths. \$\therefore PQRS\$ is a rhombus..NCERT Solutions for Class 10 Maths Chapter 7 Coordinate Geometry - PDF DownloadYou can opt for Chapter 7 - Coordinate Geometry NCERT Solutions for Class 10 Maths PDFs (Chapter-wise)Coordinate Geometry Coordinate Geometry is the branch of Mathematics that helps us exactly locate a given point with the help of an ordered pair of numbers. Coordinates are given. You can also find the coordinates of the point which divides the line segment joining two given points in the given ratio. Also you will learn how to find the area of a triangle in terms of the coordinate of its vertices. There are five sections and four exercises covered under Class 10 Maths Chapter 7 NCERT Solutions. The five sections are introduction to coordinate geometry, formula to calculate distance between two pints, finding the coordinate of the point dividing the line in a particular ratio called section formula and finding the area of triangle in the form of coordinates of their vertices. And the Related Four Exercise 7.2 Section FormulaExercise 7.3 area of TriangleExercise 7.4 Miscellaneous examplesExercise 7.1 Introduction and Distance FormulaExercise 7.2 Section FormulaExercise 7.3 area of TriangleExercise 7.4 Miscellaneous examplesExercise 7.4 Miscell Geometry problems and problems on distance between two points. It helps you to find the distance between any two points given on a plane. Exercise 7.2 consisted of Section Formula. Section Formula deals with finding the coordinates of a point dividing the line in the particular ratio. Exercise 7.3 has problems on the area of the triangle in the form of coordinates of the vertices. Exercise 7.4 has then miscellaneous problems on Distance Formula, Section Formula and Area of Triangle. NCERT Solutions for Class 10 Maths Chapter 7 ExcercisesWhat is Coordinate GeometryWe have studied number lines to each other on a plane, and locating points on the lines of the plane. The perpendicular lines may be in any
direction but usually one line is horizontal and the other vertical. Coordinate Geometry is the branch of geometry and algebra to solve the problems. Coordinate geometry is also said to be the study of graphs, etc. In these NCERT Solutions for Chapter 7 Maths Class 10, students will study different concepts and formulas related to coordinate geometry. Terms Related to Coordinate Geometry While studying coordinate geometry the students must be aware of some important terms used in this chapter. From this figure, let us understand some important terms used in the coordinate formula of geometry. Axes of Coordinates In the above figure OX and OY are called X-axis and Y-axis respectively and both together are known as axes of coordinates. Origin The point on the plane from the Y-axis is called the abscissa. Ordinate of any point on the plane from the X-axis is said to be ordinate. Coordinate of the OriginIt has zero distance from both the axes. Therefore the coordinates of the origin are (0, 0). QuadrantThe axes divide the plane is called the coordinate plane or the XY-plane and the axes are called the coordinate axes. In the first quadrant, both the coordinates are positive. In the second quadrant, the y-coordinate is negative. In the fourth quadrant, the y-coordinate is negative. In the fourth quadrant, the y-coordinate is negative. In the first quadrant, both the coordinate is negative. In the first quadrant, both the coordinate is negative. In the first quadrant, the y-coordinate is negative. In the first quadrant, the y-coordinate is negative. In the first quadrant, the y-coordinate is negative. In the first quadrant, both the coordinate is negative. In the first quadrant, the y-coordinate is negative. In the y-coordinate is negative. In the we learn about distance formulas for finding distance between two points. Finding the distance between the two points by using formula when the two coordinates of the points are given. Distance between two points by using formula when the two coordinates of the points are given. Distance between two points by using formula when the two points of the points are given. Distance between two points are given. Distance between two points of the points are given. Distance between two points of the points are given. Distance between two points are given two points are given. Distance between two the coordinates of the point dividing the line in the ratio m:n.If P is the point dividing the line AB in the ratio m:n where coordinates of A(x1, y1) and B(x2, y2). The coordinates of A(x1, y2) and B(x2, y2) and B(x in finding the area of quadrilaterals. Area of a Triangle =  $\frac{1}{2} |x1(y2-y3)+x2(y3-y1)+x3(y1-y2)|$  All the basic formulas of coordinate geometry will help you to solve all the related problems. Table of All Formulas of a Triangle =  $\frac{1}{2} |x1(y2-y3)+x2(y3-y1)+x3(y1-y2)|$  All the basic formulas of coordinate geometry will help you to solve all the related problems. Table of All Formulas of a Triangle =  $\frac{1}{2} |x1(y2-y3)+x2(y3-y1)+x3(y1-y2)|$  All the basic formulas of coordinate geometry will help you to solve all the related problems. Table of All Formulas of a Triangle =  $\frac{1}{2} |x1(y2-y3)+x2(y3-y1)+x3(y1-y2)|$  All the basic formulas of coordinate geometry will help you to solve all the related problems. Table of All Formulas of a Triangle =  $\frac{1}{2} |x1(y2-y3)+x2(y3-y1)+x3(y1-y2)|$  All the basic formulas of coordinate geometry will help you to solve all the related problems. 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Chapter 7 Maths Class 10 coordinate formulas have been proven very helpful for students to solve the problems at a competitive level. Historical FactsRene Descartes, the Great French Mathematician of the seventeenth century, liked to lie in bed and think. One day, when lying in the bed be concept of latitude and longitudeRene Descartes(1596-1650), a French Mathematician, came up with a system known as the cartesian coordinate system to describe the positions of points and lines in a plane. His latin name was Renatius Cartesius, hence the name cartesian plane was derived. cartesian coordinate or rectangular coordinate system, we can study the problems involving both geometry. Regular Practice Is The Key To Success isn't something that just happens, success is learned, success is practiced. -Sparky AndersonToday it is strongly believed that success comes from regular practice. Intelligence also sometimes fails if not practice of perfection. Some people think Maths as a very tough subject, but if they have a regular practice of solving the problems they can crack any problem. Regular practice reduces the silly mistakes done during to the caliber of the students. Practising lots of problems makes you aware of all the possible questions related to any topic. It makes it easier to solve any problem during your final exams. NCERT syllabus is designed according to the caliber of the students. Practicing NCERT problems after understanding but also improves your conceptual understanding but also improves your logical reasoning. Understanding the concept thoroughly and then solving the NCERT question will definitely increase your score in examinations.NCERT Solutions Provide the Following BenefitsImproves your accuracyMakes the concepts more clearIncreases your speed. It improves your accuracyMakes the concepts more clearIncreases your speed. It improves your accuracyMakes the concepts more clearIncreases your speed. It improves your accuracyMakes the concepts more clearIncreases your speed. It improves your accuracyMakes the concepts more clearIncreases your speed. It improves your accuracyMakes the concepts more clearIncreases your speed. It improves your accuracyMakes the concepts more clearIncreases your speed. It improves your accuracyMakes the concepts more clearIncreases your speed. It improves your accuracyMakes the concepts more clearIncreases your speed. It improves your accuracyMakes the concepts more clearIncreases your speed. It improves your accuracyMakes the concepts more clearIncreases your speed. It improves your accuracyMakes the concepts more clearIncreases your speed. It improves your accuracyMakes the concepts more clearIncreases your speed. It improves your accuracyMakes the concepts more clearIncreases your speed. It improves your accuracyMakes the concepts more clearIncreases your speed. It improves your accuracyMakes the concepts more clearIncreases your accuracyMakes the concepts mor Vedantu is a team of expert teaching professionals. Vedantu always tries to make the learning of any concept at the student level easy to understand. It explains the concept at the student is a strong believer to impart quality education to students. NCERT solutions are given in simple language with alternate solutions and
diagrammatic representation for Class 10 Coordinate Geometry are as Follows: Vedantu's NCERT solutions are divided into parts so that they can be easily understanding. The solutions are divided into parts so that they can be easily understanding. The solutions are divided into parts so that they can be easily understanding. The solutions are divided into parts so that they can be easily understanding. The solutions are divided into parts so that they can be easily understanding. The solutions are divided into parts so that they can be easily understanding. The solutions are divided into parts so that they can be easily understanding. The solutions are divided into parts so that they can be easily understanding. The solutions are divided into parts so that they can be easily understanding. The solutions are divided into parts so that they can be easily understanding. The solutions are divided into parts so that they can be easily understanding. 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They are given in proper stepwise format along with the necessary comments. The solutions are properly formatted to reduce the unnecessary burden of lengthy solutions. Vedantu is a No.1 online teaching app. It provides you free pdf for Coordinate Geometry Class 10 NCERT Solutions. It also has the potential to help you score more in the examination. Vedantu tries their level best to provide quality education, by providing NCERT solutions for coordinate geometry Class 10. It also has the potential to help you score more in the examination. NCERT solutions are 100% accurate. And they will be very helpful in the examination. Keep this Vedantu NCERT solutions for Class 10 will help you to increase your score in the final examination. Why is Coordinate Geometry Important?Coordinate geometry helps you to locate the exact location of a point in a plane. Coordinate geometry provides us the link between algebra and geometry is also said to be the study of graphs, histograms, histogram line graphs, etc. Coordinate geometry Class 10 hlds a weightage of total 6 marks in the final board examination. Coordinate geometry, distance formula, section formula and area of triangle. Deeper into ExercisesEach exercises is solved by vedantu experts. Every concept is followed by well defined exercises. Exercises are aimed to test your conceptual knowledge. All the problems of the exercises are based on the concept used behind the problems more examples are given to solve. Different types of problems are given to understand the concept thoroughly. Vedantu has studied all the exercise and variety of problems involved in each exercise 7.1 be able to find the distance between two points. With this property there are different types of problems in the exercise 7.1. We can calculate the distance between points are collinear or not. Vedantu provides step wise solutions for every problem with relevant diagrams. Diagrams help us visualize the problem. With the distance formula we can even find the unknown values of x and y coordinate if the distance between the two points are given. Vedantu provides a stepwise explanation of the solution so that you can solve any similar problems. Exercise 7.2 Exercise 7.2 deals with the section formula that is finding the coordinates of the point which divides the given line any appecific ratio. Section formula is derived by a well defined theorem. Exercise 7.2 has a total of 10 questions. It is basically given on four types of problems. Type 1: Finding the section ratio or the end points of the segment when the section point is given. Type 2: Finding the section point when the section ratio is given. Type 3: Determination. Which will make the concepts more clear. Exercise 7.3 Earlier we calculated the area of the triangle in terms of the triangle in terms of the triangle in terms of the triangle by finding the area of the triangle in terms of the triangle by finding the area of the triangle in terms of the triangle by finding the area of the triangle by finding the area of the triangle in terms of the triangle by finding the area of the triangle in terms of the terms of term by Heron's formula. But it becomes tedious if the length of the sides are in the form of irrational numbers. So we prefer to calculate the area in the type of polygon when the coordinates are given. Using the formula for the area of the triangle we can even calculate the area of the quadrilateral, as the quadrilateral breaks up into two triangles. This exercise covers a total of 10 questions. They are based on four different types. Type 2: finding the area of a quadrilateral when coordinates of its vertices are given. Type 3: Finding collinearity of three points Type 4: finding the desired results when the three points are collinear. It has a total of 5 questions. Exercise 7.4 is based on the miscellaneous concepts which is covered that is distance formula, section formula and area of triangle. knowledge regarding the concepts. Exercise 7 is the test of your knowledge on overall coordinate geometry, students study the concepts are given they get confused. Hence Exercise 7.4 is given to check your knowledge for the concepts are clear or not. All the 8 questions are of different types. Solving all these exercises will help you to master the coordinate geometry for Class 10. Vedantu's NCERT solutions will prove very helpful in solving these exercises with more ease. SummaryTo locate the position of an object or a point in a plane we require two perpendicular lines. One of them is horizontal and the other is vertical. The plane is called the cartesian plane or the coordinate plane and the lines are called the x-axis and ordinate of a given point are the distances of the point from Y-axis and X-axis respectively. The coordinate of any point on x-axis are of the form(x, 0). The coordinates of the point on x-axis are of the form(0, y). The distance between points P(x1, y1) and Q(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y1) and Q(x2, y2) internally is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y1) and Q(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y1) and Q(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y1) and Q(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y1) and Q(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y1) and Q(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y1) and Q(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y1) and Q(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y1) and Q(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y1) and Q(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y1) and Q(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y1) and Q(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y1) and Q(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y1) and Q(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y2) and P(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y2) and P(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y2) and P(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y2) and P(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y2) and P(x2, y2) is given by  $PQ = \sqrt{[(x2 - x1)2 + (y2 - y1)2]}$  between points P(x1, y2) and P(x2, y2) and P(x in the ration m : n The coordinates of point will be (mx2 + nx1/m + n, my2 + ny1/m + n) The coordinates of the mid-point of the line segment joining the points P(x1, y1) and Q(x2, y2). The coordinates of the mid-point of the line segment joining the points P(x1, y1) and Q(x2, y2) and C(x3, y3) are (x1 + x2/2, y1 + y2/2). The coordinates of the centroid of triangle formed by the points P(x1, y1) and Q(x2, y2) and C(x3, y3) are (x1 + x2/2, y1 + y2/2).  $x_2 + x_3/3$ ,  $y_1 + y_2 + y_3/3$ ) The area of the triangles formed by the points A(x1, y1), B(x2, y2) and C(x3, y3) is Area of a Triangle =  $\frac{1}{2} |x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2)|$  If points A(x1, y1), B(x2, y2) and C(x3, y3) are collinear, then  $x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2)|$  If points A(x1, y1), B(x2, y2) and C(x3, y3) are collinear, then  $x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2)|$  If points A(x1, y1), B(x2, y2) and C(x3, y3) are collinear, then  $x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2)|$ Chapter 7 Coordinate Geometry. Here, students have learnt about the important topics covered in the chapter 7 Coordinate Geometry. Here, students have learnt about the important topics covered in the
chapter 7 Coordinate Geometry. You can also download the PDF files for revision notes and important questions of Class 10 Maths Chapter 7 for enhanced preparation and improved performance.

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