

Tender Heart High School, Sec. 33B, Chd.

Class : 9th

Date : 17-02-2025

Subject : Mathematics

Teacher : Ms. Reena

Topic : Co-ordinate Geometry

Ques1 Find the value of 'a', if the distance between the points $A(-3, -14)$ and $B(a, -5)$ is 9 units.

[Ans. -3]

Ques2 Find the point on the x-axis which is equidistant from the points $(2, -5)$ and $(2, 9)$

[Ans. $(-7, 0)$]

Ques3 If $A(0, 1)$ is equidistant from $P(5, -3)$ and $R(x, 6)$, find the values of x

[Ans. ± 4]

Ques4 Show that the points $A(1, 1)$, $B(-1, -1)$ and $C(-\sqrt{3}, \sqrt{3})$ form an equilateral triangle.

Ques5 Show that the points $(0, -1)$, $(-2, 3)$, $(6, 7)$ and $(8, 3)$, taken in order, are the vertices of a rectangle. Also find its area.

[Ans. 40 sq. units]

Ques6 Use graph paper for this question

(i) Draw the graphs of $3x - y - 2 = 0$ and $2x + y - 8 = 0$

Take $1\text{cm} = 1$ unit on both axes and plot three points per line.

(ii) Write down the coordinates of the point of intersection.