

Co-Ordinate Geometry Ex 14.1 Q1

Answer:

According to the Rectangular Cartesian Co-ordinate system of representing a point (x, y), If x > 0, y > 0 then the point lies in the 1st quadrant If x < 0, y > 0 then the point lies in the 2nd quadrant If x < 0, y < 0 then the point lies in the 3rd quadrant If x > 0, y < 0 then the point lies in the 4th quadrant If x = 0, $y \ne 0$ then the point lies on the y-axis If $y = 0, x \neq 0$ then the point lies on the x-axis (i) Here the point is given to be P (5, 0). Comparing this with the standard form of (x, y) we have x = 5y = 0Here we see that $y = 0, x \neq 0$ Hence the given point lies on the x-axis (ii) Here the point is given to be Q(0, -2). Comparing this with the standard form of (x, y) we have x = 0y = -2Here we see that $x = 0, y \neq 0$ Hence the given point lies on the y-axis(iii) Here the point is given to be R (-4, 0). Comparing this with the standard form of (x, y) we have x = -4y = 0Here we see that $y = 0, x \neq 0$ Hence the given point lies on the x-axis(iv) Here the point is given to be S (0, 5). Comparing this with the standard form of (x, y) we have x = 0y = 5Here we see that $x = 0, y \neq 0$ Hence the given point lies on the y-axis

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