

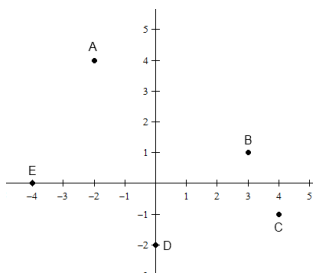
The Rectangular Coordinate System and Equations in Two Variables

1. Plot the following ordered pairs in the rectangular coordinate system. Tell which quadrant each point lies in or state that the point lies on the x-axis or y-axis.

$$P(-5,-2) \quad Q(-1,3) \quad R(1,2) \quad S(-2,5)$$

$$T(-1,-1) \quad U(4,-4)$$

2. Identify the coordinates of each point labeled in the figure. Name the quadrant in which each point lies or state that the point lies on the x- or y-axis.



3. Determine whether or not the ordered pair satisfies the equation.

$$y = 5x - 1 \quad A(3,14) \quad B(2,3) \quad C(-2,-11)$$

4. Find an ordered pair that satisfies the equation $x + y = 5$ by letting $x = 7$.

5. Find an ordered pair that satisfies the equation $8x - 2y = 18$ by letting $y = 3$.

6. Use the equation to complete the table.
Use the table to list some of the ordered pairs that satisfy the equation.

$$y = 3x + 2$$

x	y	(x, y)
-2		
2		
3		

7. Use the equation to complete the table.
Use the table to list some of the ordered pairs that satisfy the equation.

$$x = 5$$

x	y	(x, y)
	-1	
	3	
	5	

8. Use the equation to complete the table.
Use the table to list some of the ordered pairs that satisfy the equation.

$$\frac{x}{3} - \frac{y}{2} = -4$$

x	y	(x, y)
	0	
0		
6		