

## Review Exercise Set 6

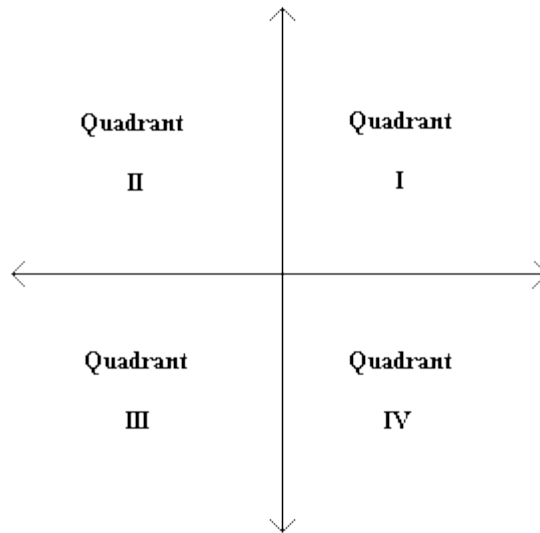
Exercise 1: Indicate the quadrant where the following points would be located.

A. (1, -5)

B. (-3, -10)

C. (7, 12)

D. (-2, 8)



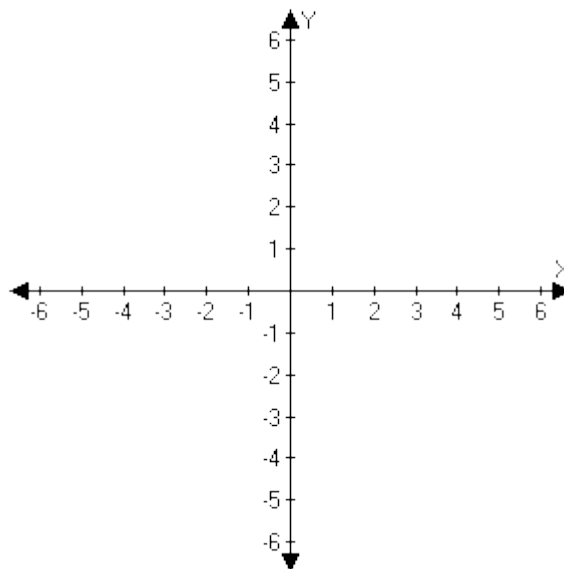
Exercise 2: Plot the following points on the same graph.

A. (0, 5)

B. (-1, 4)

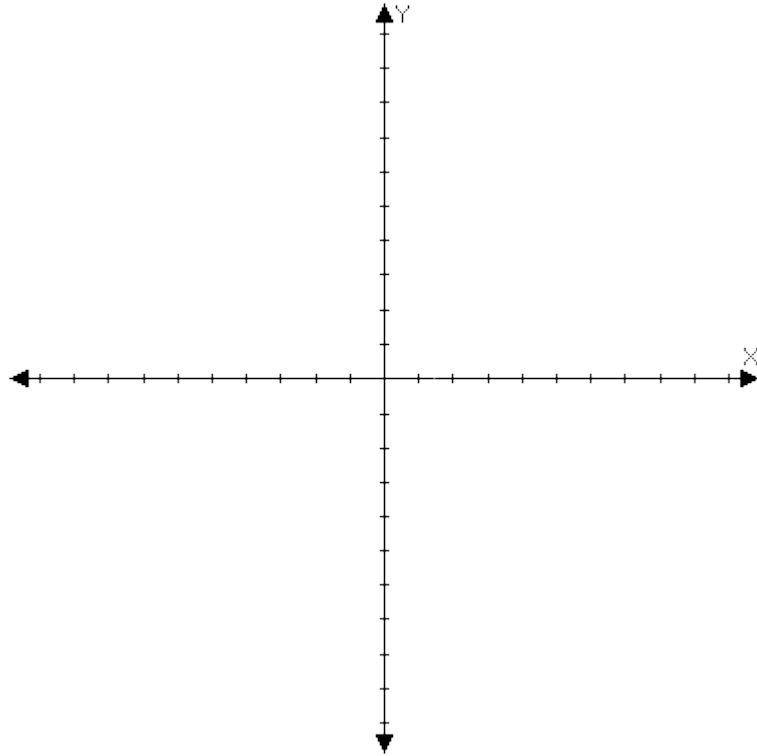
C. (-5, -2)

D. (3, 0)



Exercise 3: Graph the points to determine if they appear to be collinear.

$(-3, -6)$ ,  $(0, -2)$ , and  $(4, 1)$



Exercise 4: Determine if the ordered pair satisfies the equation.

$3x + 5y = 20$   $(10, -2)$

Exercise 5: Solve for the unknown coordinate in the given ordered pair that makes it a solution to the equation  $2x - 5y = 17$ .

$(x, 3)$

## Review Exercise Set 6 Answer Key

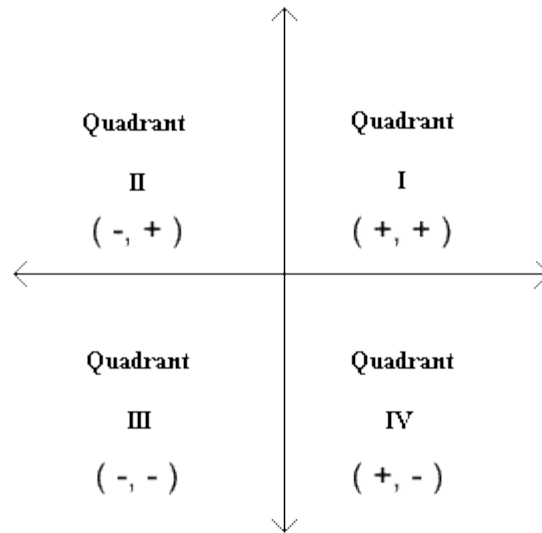
Exercise 1: Indicate the quadrant where the following points would be located.

A. (1, -5) Quadrant IV

B. (-3, -10) Quadrant III

C. (7, 12) Quadrant I

D. (-2, 8) Quadrant II



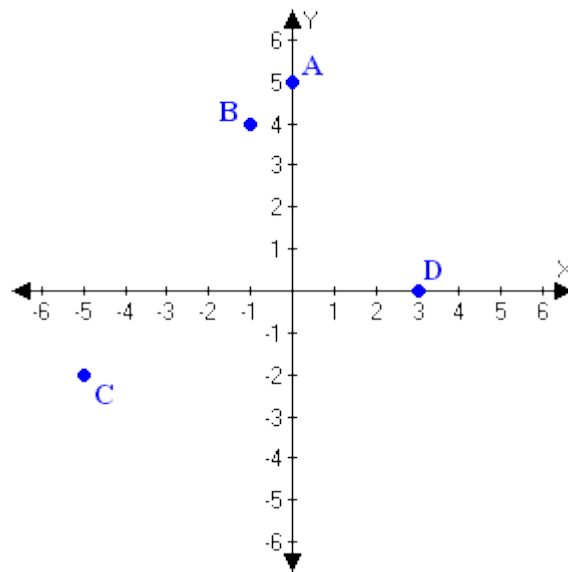
Exercise 2: Plot the following points on the same graph.

A. (0, 5)

B. (-1, 4)

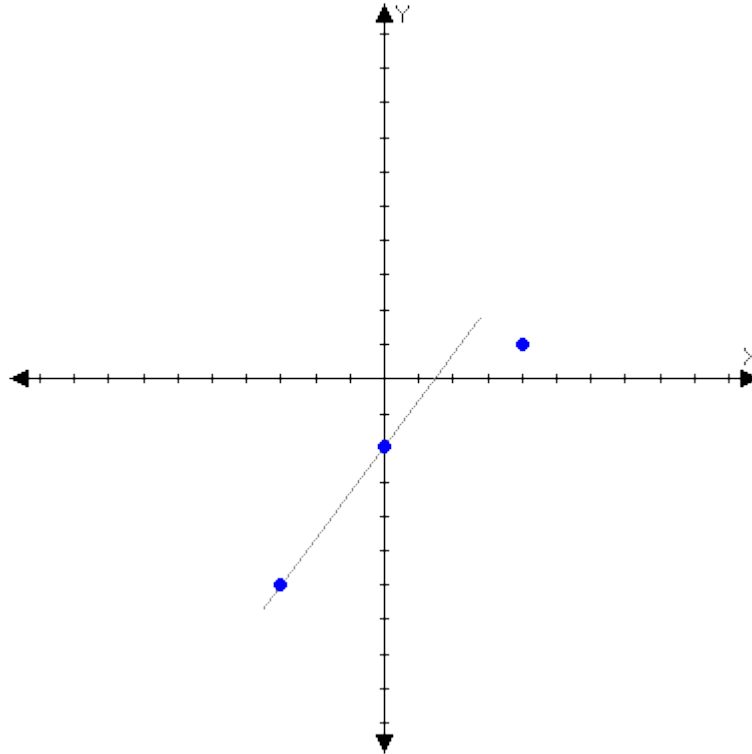
C. (-5, -2)

D. (3, 0)



Exercise 3: Graph the points to determine if they appear to be collinear.

$(-3, -6)$ ,  $(0, -2)$ , and  $(4, 1)$



**The points are not collinear because a straight line cannot be drawn that will pass through all three points.**

Exercise 4: Determine if the ordered pair satisfies the equation.

$$3x + 5y = 20 \quad (10, -2)$$

Substitute the values of the ordered pair into the equation and evaluate

$$3(10) + 5(-2) = 20$$

$$30 - 10 = 20$$

$$20 = 20$$

True

**The ordered pair  $(10, -2)$  is a solution to the equation.**

Exercise 5: Solve for the unknown coordinate in the given ordered pair that makes it a solution to the equation  $2x - 5y = 17$ .

$$(x, 3)$$

Substitute the given y coordinate and solve for x

$$2x - 5(3) = 17$$

$$2x - 15 = 17$$

$$2x = 17 + 15$$

$$2x = 32$$

$$x = 16$$

**The ordered pair would be (16, 3).**