

**Homework #5** Sections 3.1 – 3.3

**Show your work on this paper for credit.**

Plot each point and label them by its item number.

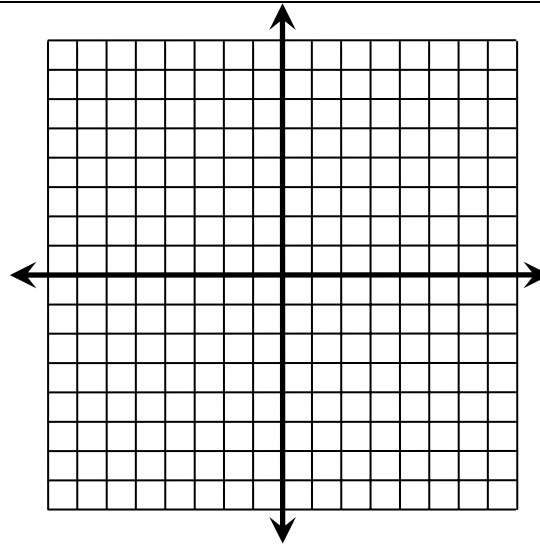
1.) (-5, -6)

2.) (1, 0)

3.) (-1, 5)

4.) (0, -7)

5.) (4, 3)



Give the coordinate of each point in the figure at the right and tell what quadrant they fall into:

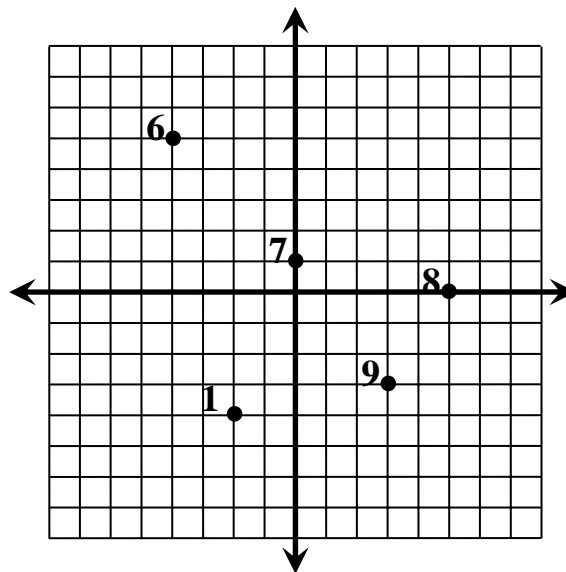
6.)

7.)

8.)

9.)

10.)



11.) Which of the ordered pairs is a solution?

$$3x + 4y = 18$$

(6,0) (0,6) (10,3)  $\left(\frac{16}{3}, \frac{1}{2}\right)$

Give the x-intercept and y-intercept:

12.)  $2x + 3y = 9$

13.)  $y = 2x - 1$

Complete the ordered pairs:

14.)  $5x - 2y = 4$

15.)  $y = \frac{2}{3}x - 1$

a.)  $(0, \underline{\quad})$

b.)  $(\underline{\quad}, 0)$

c.)  $\left(\underline{\quad}, \frac{1}{2}\right)$

a.)  $(0, \underline{\quad})$

b.)  $(\underline{\quad}, 0)$

c.)  $(\underline{\quad}, 3)$

Graph each equation on a separate coordinate system on graph paper.

16.)  $x + y = 3$

17.)  $x - y = 4$

18.)  $2x + 3y = 6$

19.)  $x = 5$

20.)  $y = -3$

21.)  $y = \frac{1}{2}x + 3$

22.)  $y = -\frac{2}{3}x - 1$

23.)  $y = 2x + 2$

24.)  $y = x$

25.)  $3x - y = 6$

26.)  $x = -\frac{1}{2}$

27.)  $y - 5 = -3$