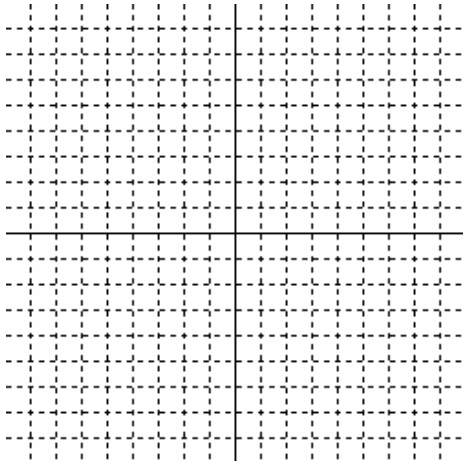


Simplify all answers and show your work!

1. Plot the following points on the xy-axis.

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



2. Identify in which quadrant the given points are located.

a. (3, 5) \_\_\_\_\_ b. (-4, -12) \_\_\_\_\_ c. (-5, 2) \_\_\_\_\_

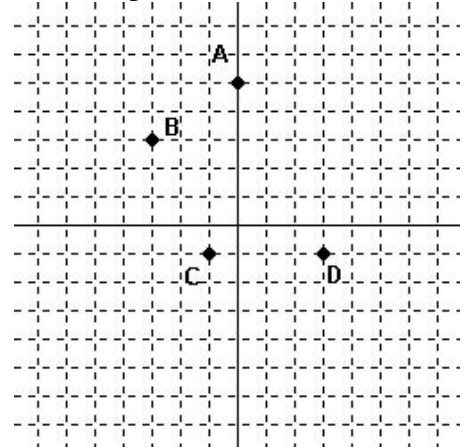
3. Find the coordinates of the points.

A = \_\_\_\_\_

B = \_\_\_\_\_

C = \_\_\_\_\_

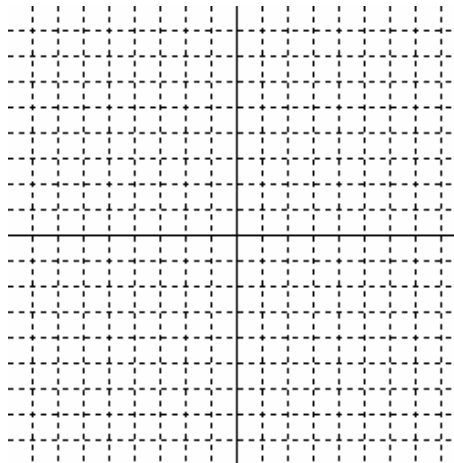
D = \_\_\_\_\_



4. Find an ordered pair on the line given by  $y = 2x - 3$ .

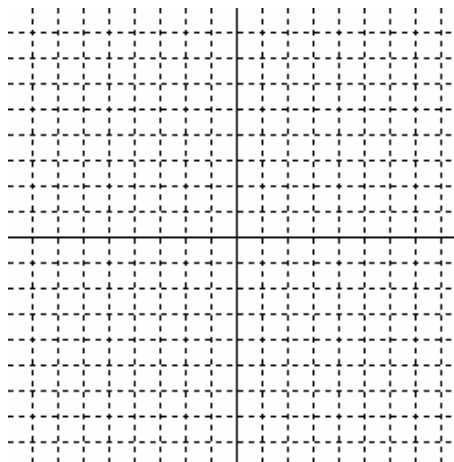
5. Graph the line given by  $y = 3x - 2$ .

x	y



6. Graph the line given by  $2x + 5y = 10$

x	y
0	
	0



7. Find the slope of the line given by  $y = \frac{2}{5}x + 6$

8. Find the slope of the line given by  $3x + 2y = 8$ .

9. Find the slope of the line through the points  $(-1, 2)$  and  $(3, 7)$ .

10. Change into decimal notation:  $3.56 \times 10^{11}$

11. Change into scientific notation: 53000000000

12. Change into decimal notation:  $5.8 \times 10^{-9}$

13. Change into scientific notation: 0.000000943

14. Multiply:  $(2.3 \times 10^5) \cdot (1.2 \times 10^4)$

15. Simplify:  $(4xy)^0$

16. Simplify:  $x^{-4} \cdot x^6$

17. Simplify:  $\frac{x^3}{x^5}$

18. Simplify:  $x^5 \cdot x^7$

19. Simplify:  $\frac{x^8 y^6}{x^2 y^9}$

20. Simplify:  $\frac{x^{-5} y^7}{x^2 y^{-3}}$

21. Find the y-intercept of the line given by  $y = 5 - 2.5x$