

# Algebra - PRACTICE PROBLEMS

page 1  
 ① Graph the given points on the coordinate plane

A (5, 4)

B (-3, 6)

C (-1, -2)

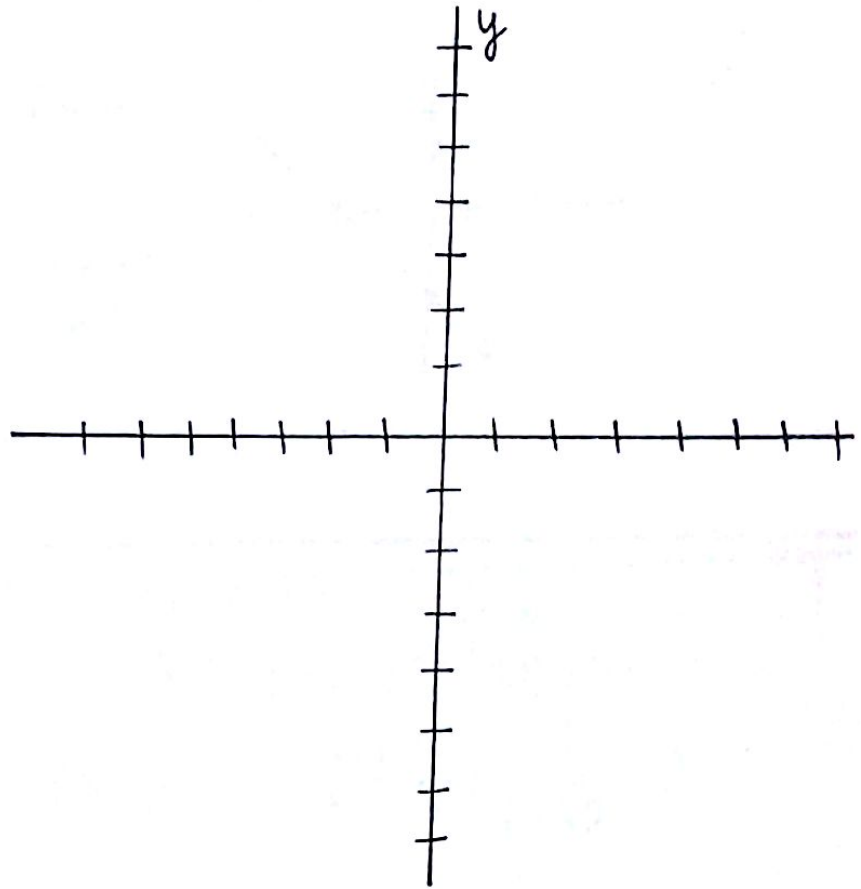
D (2, -5)

E (1, 3)

F (-7, 2)

G (-5, -4)

H (6, -1)



page 2  
 ② What is the slope of the line between the two given points?

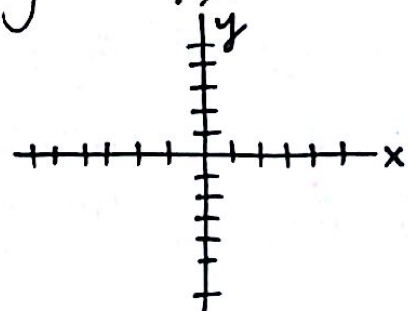
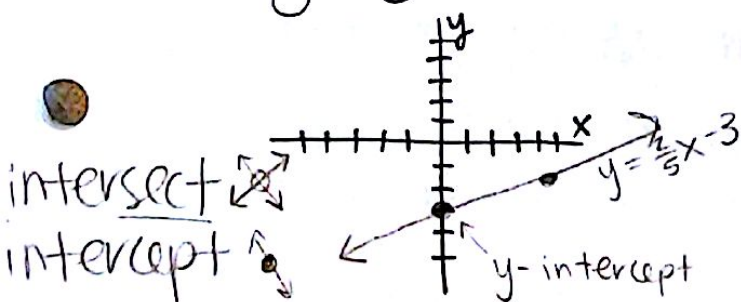
1. (-6, 5) and (4, -5)

2. (4, 3) and (-8, 1)

page 4  
 ④ Graph the linear function given.

3.  $y = \frac{2}{5}x - 3$

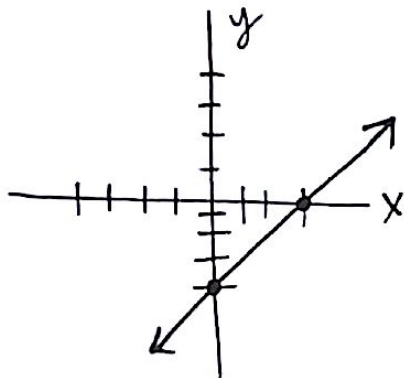
4.  $y = -4x + 5$



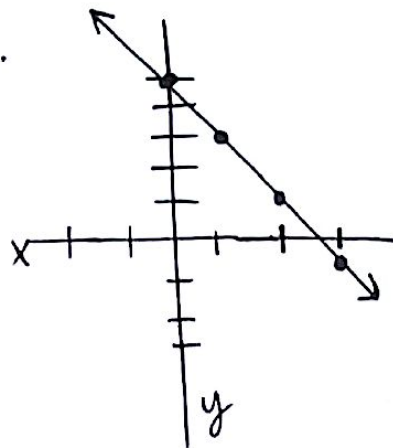
page  
5

What is the equation of the line?

5.



6.



page  
5

Is the given point a solution to the linear function?

7.  $y = 5x - 2$ ,  $(-1, -3)$

8.  $y = \frac{1}{2}x + 8$ ,  $(6, 5)$

page  
6

What is the solution to each system?

9. 
$$\begin{cases} y = -x + 1 \\ y = 2x + 4 \end{cases}$$

10. 
$$\begin{cases} y = -2x + 5 \\ y = \frac{1}{3}x - 2 \end{cases}$$

page  
7

Write the equation of the line, in slope-intercept form, given the following information.

11. slope of  $-3$ , passes through  $(4, -2)$

12. passes through  $(-3, 9)$  and slope of  $\frac{1}{3}$

13. passes through points  $(-5, 3)$  and  $(3, -1)$