

Write the equation, in slope-intercept form, of the line passing through the given points.

1.  $(0,0), (-2,4)$

2.  $(1,-3), (3,-5)$

3.  $(3,-2), (4,5)$

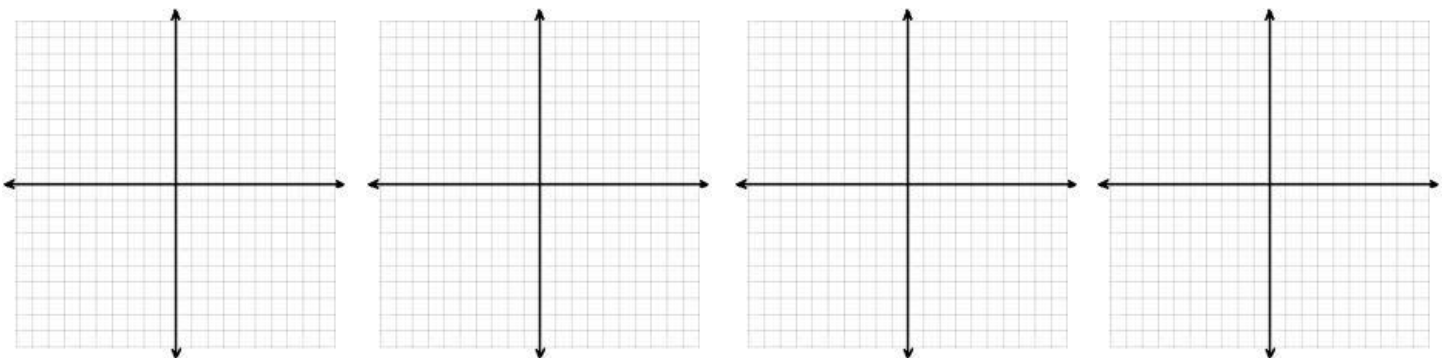
Write the equation of the horizontal or vertical line passing through the points. State the slope of the line and sketch its graph.

4. A(5, -1) and B(-4, -1)

5. A(4, 2) and B(4, -3)

6. A(-6, 3) and B(-6, -5)

7. A(6, 1) and B(-2, 1)



Rewrite each equation in slope-intercept form.

8.  $4x + 2y = 8$

9.  $-6x + 9y = -18$

10.  $y - 3 = 2(x + 4)$

11.  $y + 1 = -3(x - 5)$

Find the following:

a.) x-intercept

b.) y-intercept

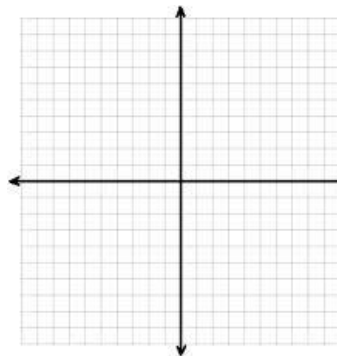
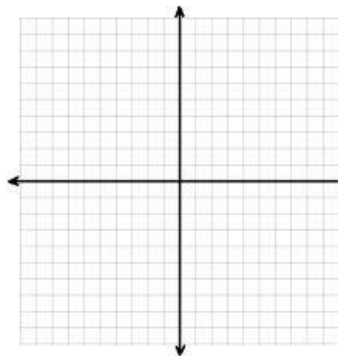
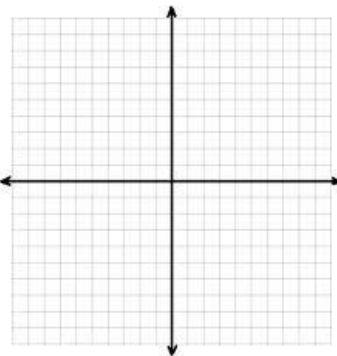
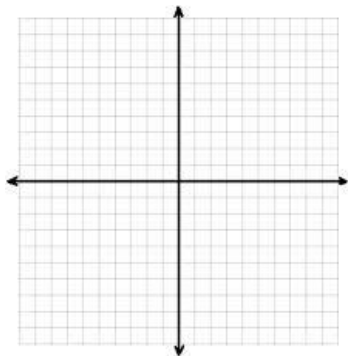
c.) Graph the line

12.  $3x - 9y = 27$

13.  $4x - y = 3$

14.  $6x - 6y = 12$

15.  $5x + 3y = 18$

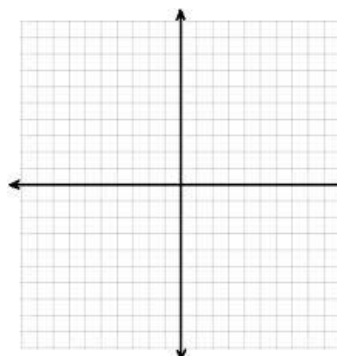
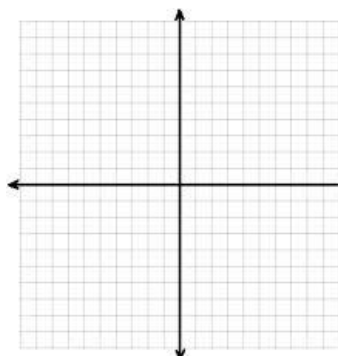
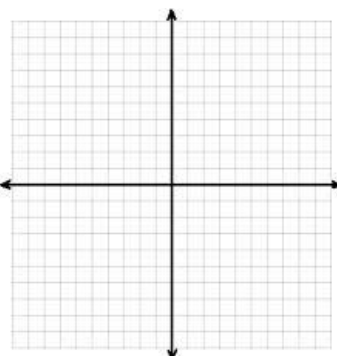
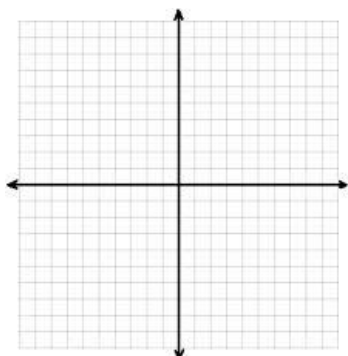


9.  $5x + y = -7$

10.  $y - 4x = 8$

11.  $2x + 2y + 14 = 0$

12.  $-3x + 4y = -24$



Write the equation in standard form using integers.

13.  $y = \frac{2}{3}x + 6$

14.  $y = -\frac{1}{4}x + 7$

Write the equation of each line in *point-slope form*.

15.  $m = 4$  passing through  $(-2, 8)$

16.  $m = -1$  passing through  $(4, -3)$

17.  $m = \frac{1}{2}$  passing through  $(-1, 5)$

18.  $m = \frac{3}{4}$  passing through  $(6, -7)$