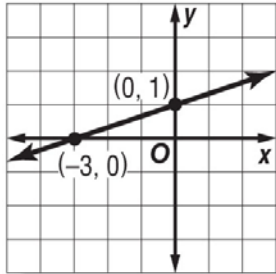


Name: \_\_\_\_\_

3.3,4.1-4.3,5.6 practice

Write an equation of the line that passes through the given point and has the given slope.

1)

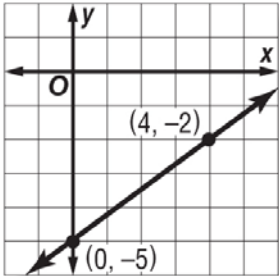


2)  $(4, -5)$ ; slope  $-\frac{1}{2}$

3) The cost for 7 dance lessons is \$82. The cost for 11 lessons is \$122. Write a linear equation to find the total cost  $C$  for  $\ell$  lessons. Then use the equation to find the cost of 4 lessons.

Write an equation in slope-intercept form given the information.

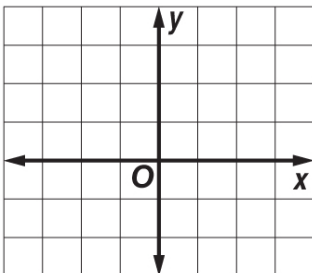
4)



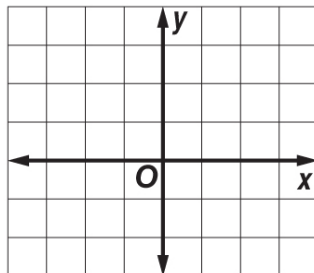
5) slope:  $-1$ , y-intercept  $-7$

Graph each equation.

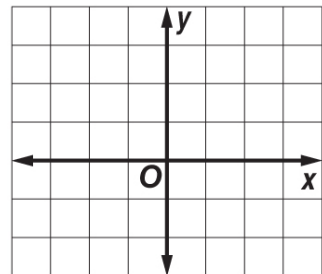
6)  $y - 2 = -(x + 3)$



7)  $2 = x$



8)  $2y = 3x - 6$



9) Write an equation in point-slope form for a horizontal line that passes through  $(4, -2)$ .

Write each equation in standard form.

10)  $y + 2 = -3(x - 1)$

11)  $y - 1 = -\frac{1}{3}(x - 6)$

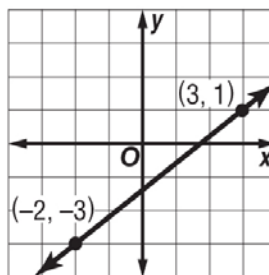
Find the value of  $r$  so the line that passes through each pair of points has the given slope.

12)  $(-2, r), (6, 7), m = \frac{1}{2}$

Find the slope of the line that passes through each pair of points.

13)  $(3, 9), (-2, 8)$

14)



For 15-18, match the inequality to the graph.

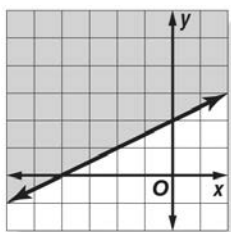
15)  $y - 2x < 2$

16)  $y \leq -3x$

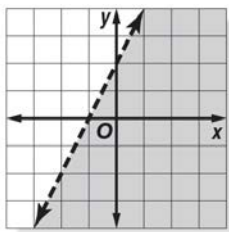
17)  $2y - x \geq 4$

18)  $x + y > 1$

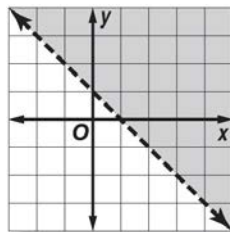
a.



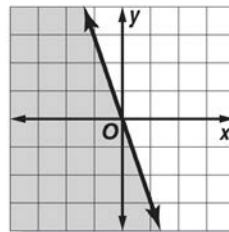
b.



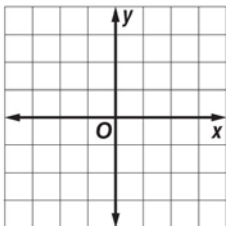
c.



d.



19) Graph  $-2y - x > -3$



20) Determine which ordered pairs are part of the solution set for the inequality.

$3x + y \geq 6, \{(4, 3), (-2, 4), (-5, -3), (3, -3)\}$