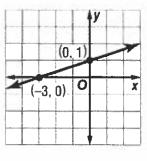
3.3,4.1-4.3,5.6 practice

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

1)



$$OR$$

$$Y = \frac{1}{3} (x+3)$$

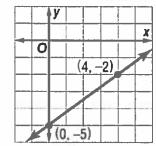
$$OR$$

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 ℓ lessons. Then use the equation to find the cost of 4 lessons.

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

4)

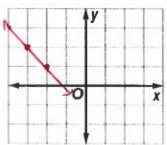


$$y = \frac{3}{4}x - 5$$

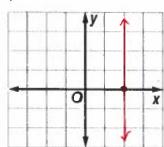
5) slope: -1, y-intercept -7

Graph each equation.

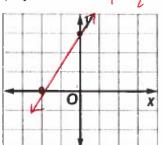
6)
$$y-2=-(x+3)$$



7)
$$2 = x$$



8)
$$2y = 3x - 6$$
 $y = \frac{3}{2} \times -3$



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

Write each equation in standard form.

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

 $y + 2 = -3x + 3$
 -2
 -2
 $-3x + 3$
 -2
 $-3x + 3$

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

 $y-1 = -\frac{1}{3}x+2$
 $y = -\frac{1}{3}x+3$

3
$$\begin{bmatrix} y = -\frac{1}{3}x + 3 \end{bmatrix}$$

 $y - 1 = -\frac{1}{3}(x - 6)$
 $y - y = -\frac{1}{3}x + 2$
 $y = -\frac{1}{3}x + 3$
pair of points has the given slope.

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

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

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

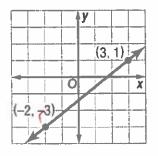
$$\frac{(-7)}{-2 - 6} = \frac{1}{2}$$

$$\frac{\sqrt{-7}}{-8} = \frac{1}{2}$$

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

$$\frac{9-8}{3--2}$$

14)



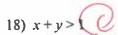


For 15-18, match the inequality to the graph.

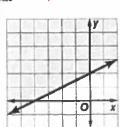
15)
$$y - 2x < 2$$

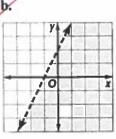
16)
$$y \le -3x$$

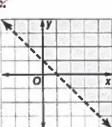
17)
$$2y - x \ge 4$$

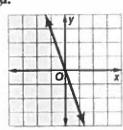




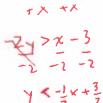








19) Graph -2y - x > -3





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

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