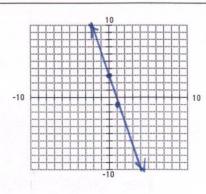
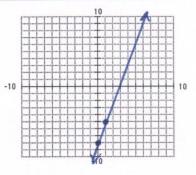
3-4 Equations of Lines Skills Practice

Date

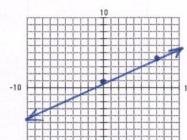
Write an equation in slope-intercept form of the line having the given slope and y-intercept. Then graph the line.

$$y = -4x + 3$$



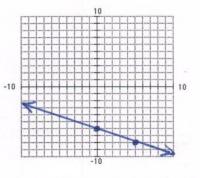


3. m:
$$\frac{3}{7}$$
, (0, 1)



4. m:
$$-\frac{2}{5}$$
, (0, -6)

$$y = -\frac{2}{5}x - 6$$

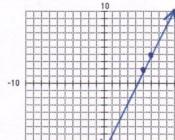


Write equations in point-slope form of the line having the given slope that contains the given point. Then graph the line.

5.
$$m = 2, (5, 2)$$

$$y-2=2(x-5)$$

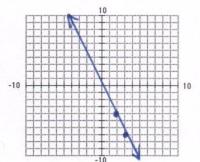
 $y=2+2(x-5)$



6.
$$m = -3$$
, $(2, -4)$

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

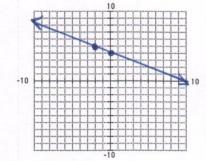
$$y = -4 + -3(x-2)$$



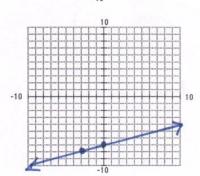
7.
$$m = -\frac{1}{2}$$
, $(-2, 5)$

$$y-5=\frac{1}{2}(x+2)$$

 $y=5-\frac{1}{2}(x+2)$

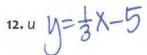


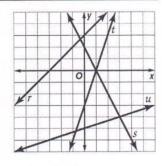
8.
$$m = \frac{1}{3}, (-3, -8)$$



9-14: Use the graph to write an equation in slope-intercept form for each line shown or described.

10.5
$$y = -2x + 2$$





13. the line parallel to line r and contains
$$(1, -1)$$

$$y+1=1(x-1)$$

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

$$y - 0 = \frac{1}{2}(x - 0)$$
 $y = \frac{1}{2}x$

15-20: Write an equation in slope-intercept form for each line described.

15.
$$m = 6, b = -2$$

$$y = (ex - 2)$$

16.
$$m = -\frac{5}{3}$$
, $b = 0$ $y = -\frac{5}{3}x$

17.
$$m = -1$$
, contains $(0, -6)$

19. contains (2, 0) and (0, 10) y-intercept! $m = \frac{10-0}{0-2} = \frac{10}{-2} = -5$

$$(-2,0) \qquad (0,-1)$$

$$m = \frac{-1-0}{0-(-2)} = \frac{-1}{2}$$

$$y = -\frac{1}{2} \times -1$$