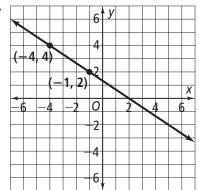
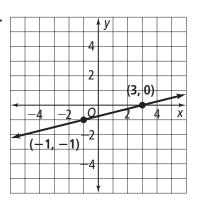
Form G

Practice
Equations of Lines in the Coordinate Plane

Find the slope of the line passing through the given points.





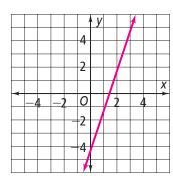
**4.** 
$$(-6, -2), (-3, -6)$$
  $-\frac{4}{3}$  **5.**  $(2, 9), (4, -7)$  **-8**

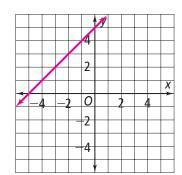
Graph each line.

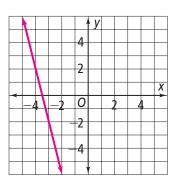
**6.** 
$$y = 3x - 4$$

7. 
$$y-2=(x+3)$$

7. 
$$y - 2 = (x + 3)$$
 8.  $y + 2 = -4(x + 3)$ 







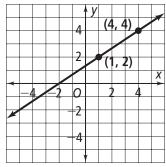
 $y=-\frac{3}{2}x+2$ 

Use the given information to write an equation for each line.

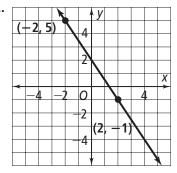
**9.** slope 6, *y*-intercept 4 
$$y = 6x + 4$$

**10.** slope 
$$-\frac{1}{3}$$
, y-intercept  $-2$   $y = -\frac{1}{3}x - 2$ 

11.



 $y = \frac{2}{3}x + 1\frac{1}{3}$  12.



- **13.** through (-2, 0) and (3, 10)y=2(x+2)
- **14.** through (10, 2) and (2, -2)  $y 2 = \frac{1}{2}(x 10)$

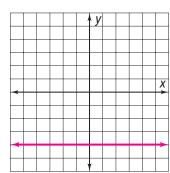
## Practice (continued)

Form G

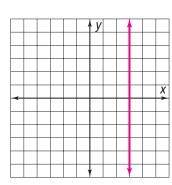
Equations of Lines in the Coordinate Plane

Graph each line.

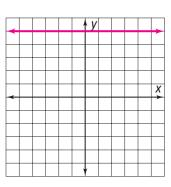
**15.** 
$$y = -4$$



**16.** 
$$x = 3$$



**17.** 
$$y = 5$$



**18. Open-Ended** Write equations for three lines that contain the point (0, 2).

Answers may vary. Sample: y = 2, y = x + 2, y = -4x + 2

Write each equation in slope-intercept form.

$$y = 4x + 11$$

$$y = -2x + 12$$

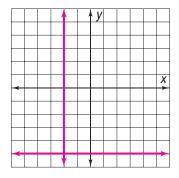
$$y = -\frac{1}{2}x - 3$$
  
21.  $y + 1 = -\frac{1}{2}(x + 4)$ 

- **19.** y 3 = 4(x + 2)
- **20.** y 2 = -2(x 5)
- 22. A wireless phone company charges \$20 for a basic plan each month plus \$0.25/min for each call.
  - **a.** Write an equation to show how much the company charges, where *x* is the number of minutes used and y is the total cost. y = 0.25x + 20
  - **b.** Find the total cost for 300 minutes, 350 minutes, and 400 minutes. \$95; \$107.50; \$120
  - c. Graph the equation using the values for 300 and 400 minutes.



Graph each pair of lines. Then find their point of intersection.

**23.** 
$$y = -5, x = -2$$
 (-2, -5)



**24.** 
$$y = 6, x = -1$$
 (-1, 6)

