

2-3 Practice

Form G

Linear Functions and Slope-Intercept Form

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

1. $(0, 1)$ and $(3, 0)$

2. $\left(\frac{1}{2}, \frac{2}{3}\right)$ and $\left(\frac{3}{2}, \frac{5}{3}\right)$

3. $(-3, -2)$ and $(1, 6)$

4. $(4, -1)$ and $(-2, -3)$

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

6. $(8, 9)$ and $(8, 3)$

7. $(-3, -3)$ and $(-1, -3)$

8. $\left(\frac{1}{2}, \frac{1}{2}\right)$ and $(-2, -4)$

Write an equation for each line.

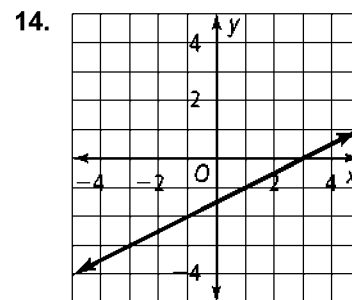
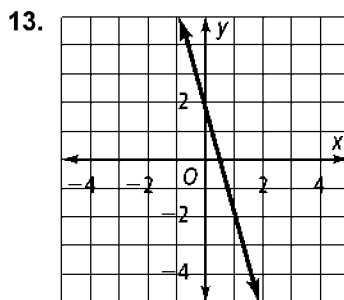
9. $m = -4$ and the y -intercept is 3.

10. $m = \frac{2}{5}$ and the y -intercept is $\frac{17}{5}$.

11. $m = 0$ and the y -intercept is -4 .

12. $m = -1$ and the y -intercept is 2.

Find the slope and y -intercept of each line.



2-3

Practice (continued)

Form G

Linear Functions and Slope-Intercept Form

Find the slope and y -intercept of each line.

15. $3x - 4y = 12$

16. $y = -2$

17. $f(x) = \frac{5}{4}x + 7$

18. $x = 5$

19. $4x - 3y = -6$

20. $g(x) = -3x - 17.5$

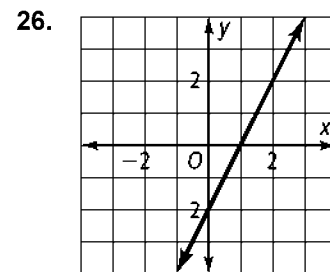
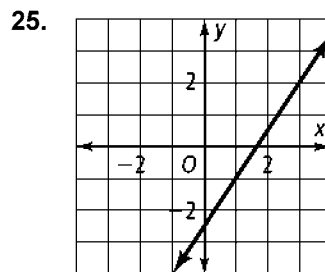
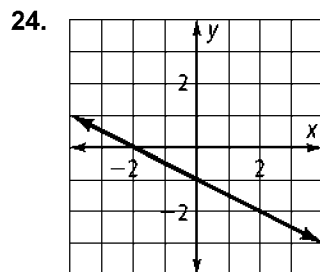
Graph each equation.

21. $4x + 3y = 12$

22. $\frac{x}{3} - \frac{y}{6} = 1$

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

Find the slope and y -intercept of each line.



27. The equation $e = 1200 + 11t$ represents your elevation e in feet for each minute t you hike from a trailhead.

- If you graphed this equation, what would the slope represent? Explain.
- Are you hiking uphill or downhill? Explain.