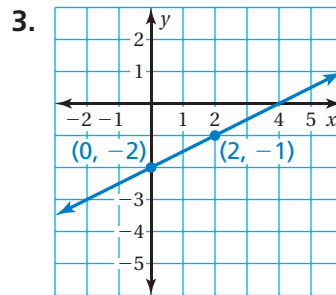
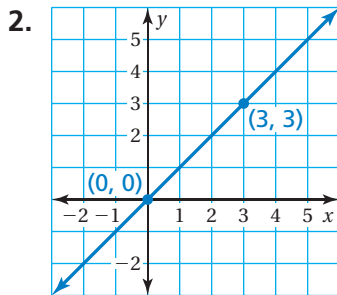
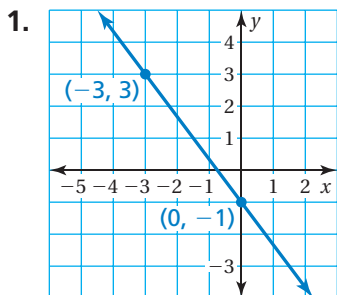


2.5–2.7 Quiz



Write an equation of the line in slope-intercept form. (Section 2.5)



Write in point-slope form an equation of the line that passes through the given point and has the given slope. (Section 2.6)

4. $(1, 3); m = 2$

5. $(-3, -2); m = \frac{1}{3}$

6. $(-1, 4); m = -1$

7. $(8, -5); m = -\frac{1}{8}$

Write in slope-intercept form an equation of the line that passes through the given points. (Section 2.6)

8. $\left(0, -\frac{2}{3}\right), \left(-3, -\frac{2}{3}\right)$

9. $(4, 0), (0, 4)$

10. Write an equation of the line that passes through $(2, -5)$ and is (a) parallel to and (b) perpendicular to the line $y = \frac{1}{3}x + 4$. (Section 2.6)

11. **CONSTRUCTION** A construction crew is extending a highway sound barrier that is 13 miles long. The crew builds $\frac{1}{2}$ mile per week. Write an equation for the length y (in miles) of the barrier after x weeks. (Section 2.5)

12. **FISH POND** You are draining a fish pond. The amount y (in liters) of water remaining after x hours is $y = -60x + 480$. (a) Graph the equation. (b) Interpret the x - and y -intercepts. (Section 2.7)

13. **WATER** A recreation department bought bottled water to sell at a fair. The graph shows the number y of bottles remaining after each hour x . (Section 2.7)

- Find the slope and y -intercept.
- Write an equation of the line.
- The fair started at 10 A.M. When did the recreation department run out of bottled water?

