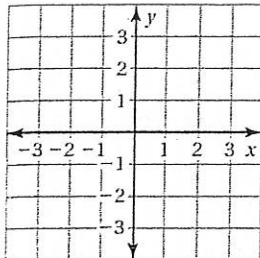


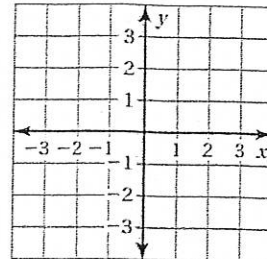
Chapter 4 REVIEW – Concepts #5, 6 and 7

Solve for y . Then graph the equation. Show all work.

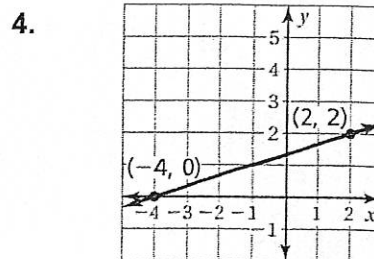
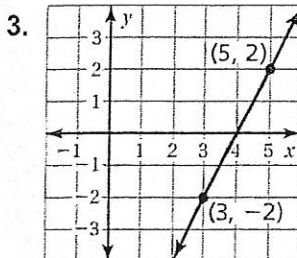
1. $3x + 2y = -4$



2. $4y - 3x = 4$

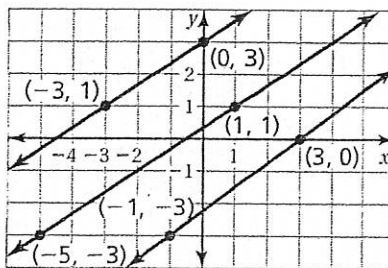


Find the slope of the line.



5. Which is steeper, a hill that rises 2 feet for every 10 feet of run, or a hill that rises 2 feet for every 15 feet of run? Explain.

6. Which two lines are parallel? Explain.



Find the slope and the y -intercept of the graph of the linear equation. Show all work.

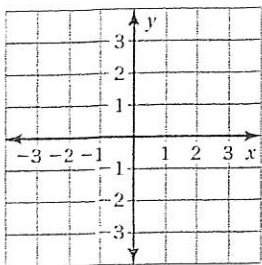
7. $y = -2x - 1$

8. $y - \frac{1}{3}x = 0$

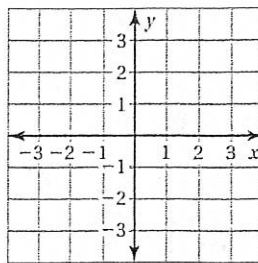
9. $y + 2 = \frac{3}{4}x$

Graph each equation. Show work.

11. $3x - 2y = 6$



12. $2x - y = -2$



13. You open a savings account with \$200. You plan to save \$20 each week.

- Write an equation that represents the amount in the account y after x weeks.
- Identify the slope. What does it represent?
- Identify the y -intercept. What does it represent?

Find the slope of the line that passes through the given points. Show work.

14. $(-3, -2), (0, 0)$

15. $(0, 3), (2, 3)$

18. The graph shows the relationship between temperature y (in degrees Fahrenheit) and altitude x (in thousands feet).

a. Find and interpret the slope of the graph.

b. Write an equation of the line.

c. Interpret the y -intercept of the graph.

d. Interpret the x -intercept of the graph.

e. What is the temperature at 11,000 feet?

