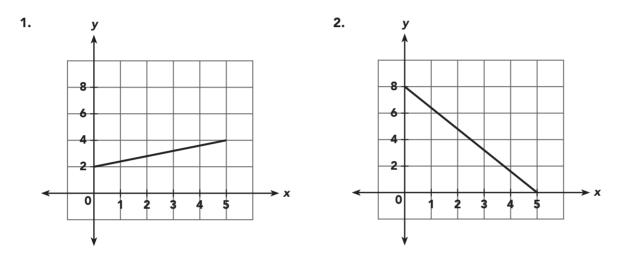
CHAPTER TEST A





Concepts and Skills (10 × 1 point = 10 points)

Find the slope of each line.



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

3. A (4, 8) and B (2, 0)

4. *P* (0, 6) and *Q* (3, 0)

Use the given slope and y-intercept of a line to write an equation in slope-intercept form.

5. Slope, m = 2 *y*-intercept, b = 3 **6.** Slope, m = -3*y*-intercept, b = 4 Write an equation of the line that passes through each given point and is parallel to y = -3x + 8.

7. (5, 2) **8.** (0, 1)

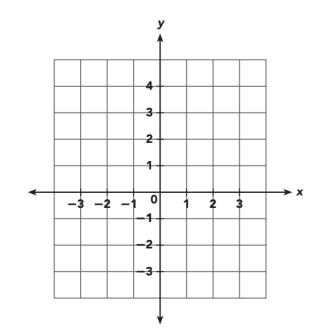
Write an equation of the line with the given slope that passes through the given point.

9. Slope,
$$m = -1$$
; (0, 2)
10. Slope, $m = \frac{1}{2}$; (2, -1)

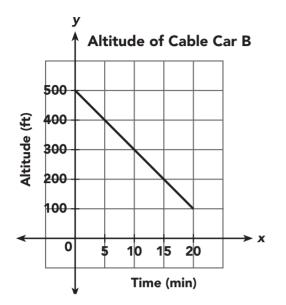
Problem Solving (Questions 11 to 13: 3 × 2 points = 6 points Questions 14 to 16: 3 × 3 points = 9 points)

Solve. Show your work.

11. Graph the line with slope, m = -2 that passes through the point (-1, 4) on the coordinate plane below.



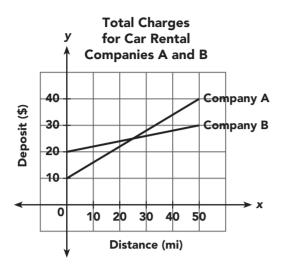
12. Two cable cars are descending from two separate stations. The altitude, y feet, of Cable Car A after x minutes is given by the equation y = -30x + 700. The graph shows the altitude, y feet, of Cable Car B after x minutes.



a) Which cable car is descending from a higher altitude?

b) Which cable car is descending at a faster rate?

13. Car rental companies A and B each requires a deposit of *D* dollars, to rent a car, plus a fixed mileage charge.



a) Find the amount each car rental company requires for the deposit.

b) Which company charges a greater amount per mile?