

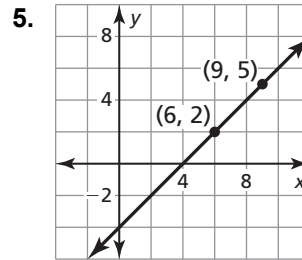
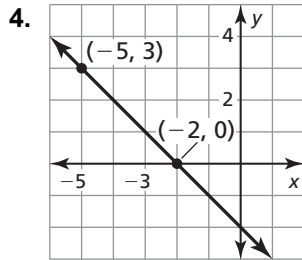
# 4.2

## Practice B

In Exercises 1–3, write an equation in point-slope form of the line that passes through the given point and has the given slope.

1.  $(-4, 5); m = 1$                       2.  $(3, 4); m = \frac{1}{3}$                       3.  $(2, -6); m = -\frac{1}{4}$

In Exercises 4 and 5, write an equation in slope-intercept form of the line shown.



In Exercises 6–8, write an equation in slope-intercept form of the line that passes through the given points.

6.  $(-3, 6), (-5, -6)$                       7.  $(2, -4), (5, -4)$                       8.  $(-7, 18), (7, 14)$

In Exercises 9–11, write a linear function  $f$  with the given values.

9.  $f(-5) = 2, f(7) = -4$     10.  $f(-2) = 1, f(12) = 7$     11.  $f(-8) = 12, f(-3) = -3$

In Exercises 12 and 13, tell whether the data in the table can be modeled by a linear equation. Explain. If possible, write a linear equation that represents  $y$  as a function of  $x$ .

12. 

$x$	0	1	2	3	4
$y$	3.5	3	2.5	2	1.5

13. 

$x$	0	2	4	6	8
$y$	1	2	4	8	16

14. The equation  $y - 2 = \frac{5}{4}(x + 8)$  represents the cost (in dollars) of making your own juice (in fluid ounces).
- What is the slope of the line? Interpret the slope in the context of this situation.
  - Write the equation as a linear function.
  - Use the linear function in part (b) to determine the base cost of making your own juice.