

4.1 Practice A

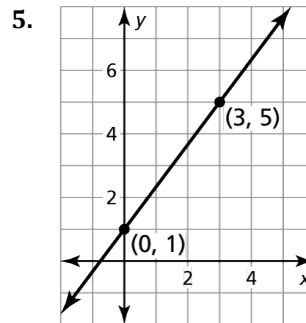
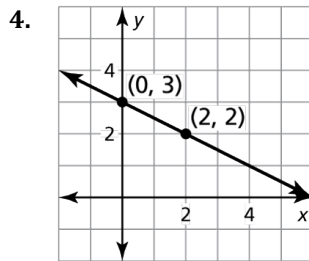
Write an equation of the line with the given slope and y -intercept.

1. slope: 3
 y -intercept: 8

2. slope: -4
 y -intercept: 0

3. slope: 0
 y -intercept: -2

Write an equation of the line in slope-intercept form.



Write an equation of the line that passes through the given points.

6. $(2, 3)$, $(0, 9)$

7. $(5, -2)$, $(0, -2)$

Write a linear function f with the given values.

8. $f(0) = 3$, $f(1) = 5$

9. $f(0) = 9$, $f(2) = 4$

10. In 2003, a gallon of gas cost \$1.75. In 2013, a gallon of gas cost \$3.50.

a. Write a linear model that represents the cost (in dollars) of a gallon of gas as a function of the number of years since 2003.

b. Use the model to predict the cost of a gallon of gas in 2023.

4.2 Practice A

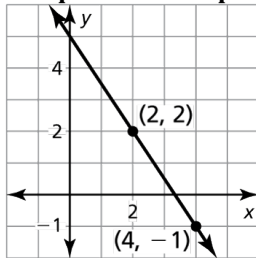
Write an equation in point-slope form of the line that passes through the given point and has the given slope.

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

2. $(2, -7); m = -3$

Write an equation in slope-intercept form of the line shown.

3.



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

4. $(6, 3), (3, 10)$

5. $(5, -4), (15, 2)$

Write a linear function f with the given values.

6. $f(-3) = 5, f(1) = 13$

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 .

8.

x	1	3	5	7	9
y	-2	4	7	14	22

9.

x	-2	0	2	4	6
y	-3	9	3	6	9

10. You are renting a paddle board. The company charges a \$50 fee and \$20 per day.

a. Write an equation that represents the total cost (in dollars) of renting a paddle board as a function of the number of days.

b. Find the total cost of renting a paddle board for 7 days.