$\qquad$
$\qquad$
4.1

## Practice A

In Exercises 1-3, 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

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

5.


In Exercises 6-8, write an equation of the line that passes through the given points.
6. $(2,3),(0,9)$
7. $(5,-2),(0,-2)$
8. $(-1,4),(0,-2)$

In Exercises 9-11, write a linear function $\boldsymbol{f}$ with the given values.
9. $f(0)=3, f(1)=5$
10. $f(0)=9, f(2)=4$
11. $f(3)=-2, f(0)=1$
12. 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.
13. Line $\lambda$ is a reflection in the $y$-axis of line $k$. Write an equation that represents line $k$.

$\qquad$

### 4.1 Practice B

In Exercises 1-3, write an equation of the line with the given slope and $\boldsymbol{y}$-intercept.

1. slope: 3
$y$-intercept: -9
2. slope: 0 $y$-intercept: $\frac{1}{3}$
3. slope: $-\frac{2}{5}$
$y$-intercept: 7

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

4. 


5.


In Exercises 6-8, write an equation of the line that passes through the given points.
6. $(4,0),(0,-7)$
7. $(0,-3),(-2.5,2)$
8. $(0,4),(-6,1.5)$

## In Exercises 9-11, write a linear function $\boldsymbol{f}$ with the given values.

9. $f(6)=-2, f(0)=-5$
10. $f(0)=-1, f(2)=-1$
11. $f(-4)=3, f(0)=-2$
12. A T-shirt design company charges your team an initial fee of $\$ 25$ to create the team's design. Each T-shirt printed with your design costs an additional $\$ 8$.
a. Write a linear model that represents the total cost of purchasing your team's T-shirts with your design as a function of the number of T-shirts.
b. Your team has 35 members. If a T-shirt is purchased for every member, what would be the cost?
13. Line $\lambda$ is a reflection in the $x$-axis of line $k$. Write an equation that represents line $k$.

