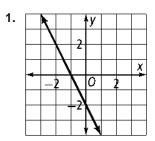
## Class Date

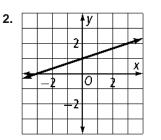
## **Extra Practice**

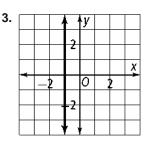
Chapter 5

# Lesson 5-1

## Find the slope of each line.







#### Find the rate of change for each situation.

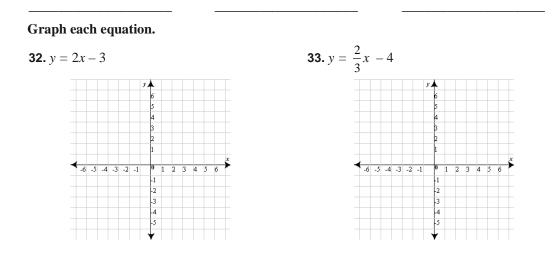
**4.** growing from 1.4 m to 1.6 m in one year

- **5.** bicycling 3 mi in 15 min and 7 mi in 55 min
- **6.** growing 22.4 mm in 14 s
- 7. reading 8 pages in 9 min and 22 pages in 30 min
- 8. The cost of four movie tickets is \$30 and the cost of seven tickets is \$52.50.
- **9.** Five seconds after jumping out of the plane, a sky diver is 10,000 ft above the ground. After 30 seconds, the sky diver is 3750 ft above the ground.

**10.** Find the slope of the line that includes the points (1, 4) and (-3, -2).

# Lesson 5-3

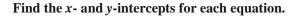
Find the slope and y-intercept.		
<b>20.</b> $y = 6x + 8$	<b>21.</b> $3x + 4y = -24$	<b>22.</b> 2 <i>y</i> = 8
<i>m</i> = <i>b</i> =	<i>m</i> = <i>b</i> =	<i>m</i> = <i>b</i> =
<b>23.</b> $y = \frac{-3}{4}x - 8$	<b>24.</b> 2 <i>y</i> = 3 <i>x</i> −1	<b>25.</b> $4x - 5y = 2$
<i>m</i> = <i>b</i> =	<i>m</i> = <i>b</i> =	<i>m</i> = <i>b</i> =
A line passes through the given points. Write an equation for the line in slope-intercept form.1. Find the slope (m)2. Find the y-intercept (b)3. Write equation		
<b>26.</b> (-2, 4) and (3, 9)	<b>27.</b> (1, 6) and (9, -4)	<b>28.</b> (0, -7) and (-1, 0)
<b>29.</b> (7, 0) and (3, -4)	<b>30.</b> (0, 0) and (-7, 1)	<b>31.</b> (10, 0) and (0, 7)



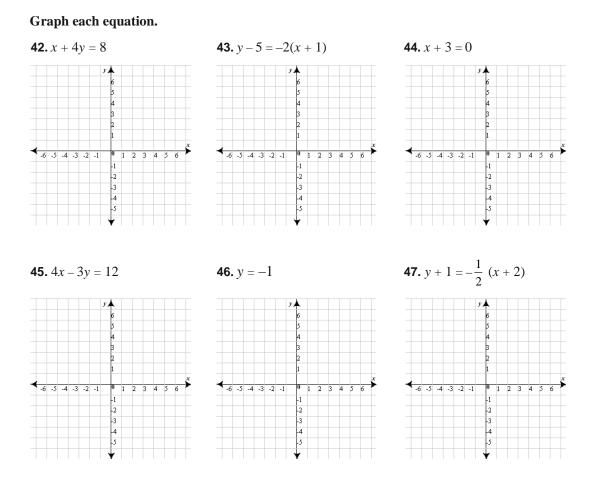
### Write an equation in slope-intercept form for each situation.

- **34.** A skateboard ramp is 5 ft high and 12 ft long from end to end.
- **35.** An airplane with no fuel weighs 2575 lbs. Each gallon of gasoline added to the fuel tanks weighs 6 lbs.

# Lessons 5-4 and 5-5



**39.** 
$$y = -7x$$
 **40.**  $y = \frac{1}{2}x + 3$  **41.**  $-2y = 5x - 12$ 



#### Write an equation in slope-intercept form for each situation.

- **48.** A train travels at a rate of 70 mi/h. Two hours after leaving the station it is 210 miles from its destination.
- **49.** An escalator has a slope of  $\frac{3}{4}$ . After traveling forward 32 feet, the escalator is 24 feet above the floor.

### Write an equation in standard form for each situation.

- **50.** Juan can ride his bike at 12 mi/h and walk at 4 mi/h. Write an equation that relates the amount of time he can spend riding or walking combined, to travel 20 miles.
- **51.** You have \$25 to buy supplies for a class party. Juice costs \$3 per bottle and chips cost \$2 per bag. Write an equation that relates the amount of juice and chips you can buy using \$25.

# Lesson 5-6

Write an equation in standard form that satisfies the given conditions.

**52.** parallel to y = 4x + 1, through (0, 0)

**53.** perpendicular to y = -x - 3, through (-3, 5)

**54.** perpendicular to 3x + 4y = 12, through (7, 1)

**55.** parallel to 2x - y = 6, through (-6, -9)

**56.** parallel to the *x*-axis and through (4, -1)

**57.** through (4, 44) and parallel to the *y*-axis

# Lesson 5-8

## Graph each equation by translating y = |x| or y = -|x|.

**62.** A car traveling at a rate of 50 mi/h passes a rest area 30 minutes after the beginning of the trip. Write an absolute value equation that represents the car's distance from the rest area.

