Cesar needs $1\frac{1}{2}$ cups of flour to make a cake that will serve 15 people. If Cesar wants to make enough cake to serve 30 people, how many cups of flour will he need?

- **A.** $2\ 1/2$
- **B.** 8
- **C.** $2\ 1/4$
- **D.** 3

The altitude of a plane above sea level, in feet, m minutes after departure is $293 + 550m$.

Which statement is correct?

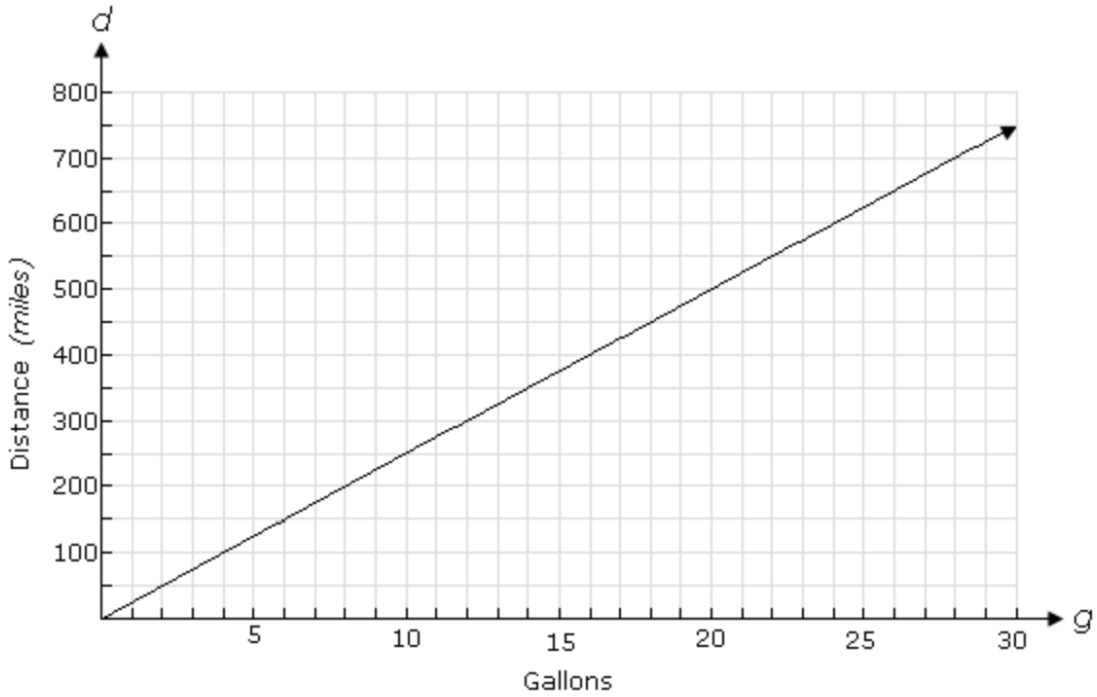
- **A.** The plane's altitude increases by 550 feet each minute after departure.
- **B.** The plane's altitude decreases by 293 feet each minute after departure.
- **C.** The plane's altitude decreases by 550 feet each minute after departure.
- **D.** The plane's altitude increases by 293 feet each minute after departure.

What is the equation of the line that has a slope of 4 and passes through the point (4,9)?

- **A.** $y + 9 = -4(x + 4)$
- **B.** $y + 4 = -4(x - 9)$
- **C.** $y - 9 = 4(x - 4)$
- **D.** $y - 4 = 4(x + 9)$

In Ben's apartment complex, residents are fined $13 per day each day the rent is late. Last month, Ben wrote the apartment complex a check for $975 when his monthly rent is only $780. How many days late was Ben's rent?

- **A.** 14
- **B.** 16
- **C.** 13
- **D.** 15



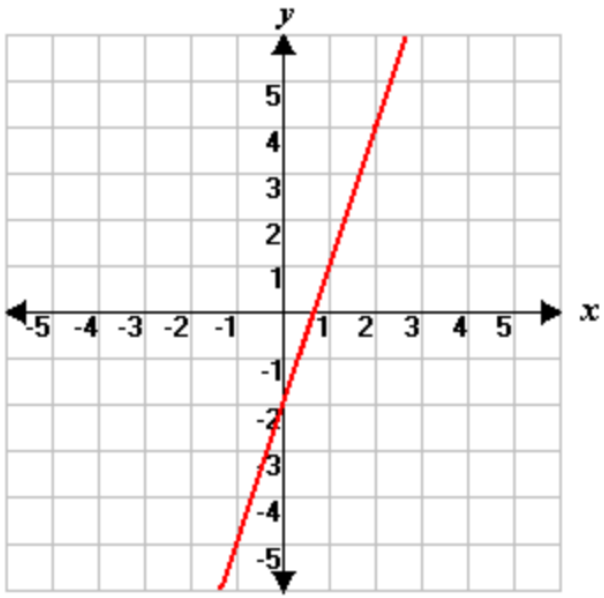
The graph shows the distance a car can travel, *d*, on *g* gallons of gasoline. How many miles per gallon does the car get?

- **A.** 35 miles per gallon
- **B.** 25 miles per gallon
- **C.** 20 miles per gallon
- **D.** 30 miles per gallon

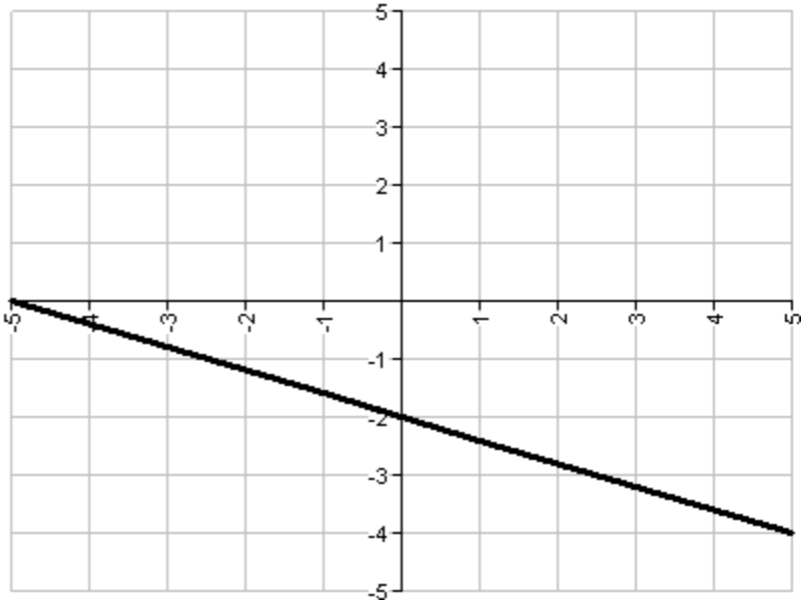
What is the equation for a line that passes through the points (5,-1) and (-10,14)?

- **A.** $y = x - 4$
- **B.** $y = x + 4$
- **C.** $y = \frac{9}{7}x - 6$
- **D.** $y = -x + 4$

Which of the following equations matches the graph below?



- **A.** $y = 3x - 2$
- **B.** $y = -3x - 2$
- **C.** $y = \frac{1}{3}x + 2$
- **D.** $y = -\frac{1}{3}x - 2$



Determine the y-intercept of the line above.

- **A.** (0, -1)
- **B.** (-5, 0)
- **C.** (0, -3)
- **D.** (0, -2)

A linear function has a *y*-intercept of -5 and a slope of 3. What is the equation of the line?

- **A.** $y = 3x - 5$
- **B.** $y = \frac{1}{3}x - 5$
- **C.** $y = 3x + 15$
- **D.** $y = 3x + 5$

The amount of fuel, in gallons, in a vehicle's fuel tank after driving m miles is $25 - 0.05m$.

Which statement is correct?

- **A.** For every mile the car is driven, the amount of fuel increases by 0.05 gallons.
- **B.** For every mile the car is driven, the amount of fuel increases by 25 gallons.
- **C.** For every mile the car is driven, the amount of fuel decreases by 0.05 gallons.
- **D.** For every mile the car is driven, the amount of fuel decreases by 25 gallons.

The equation of a line in the point-slope form is show below.

$$y - 6 = 4(x - 6)$$

What is the slope of this line?

- **A.** $\frac{1}{6}$
- **B.** $\frac{1}{4}$
- **C.** 6
- **D.** 4

What is the equation for a line that passes through the points (-5,0) and (10,6)?

- **A.** $y = -\frac{2}{5}x - 2$
- **B.** $y = \frac{2}{5}x - 2$
- **C.** $y = -\frac{2}{5}x + 2$
- **D.** $y = \frac{2}{5}x + 2$

While riding in a car, Rachel saw 12 red cars pass by in one minute. At this rate, how many red cars will she see in 2 hours?

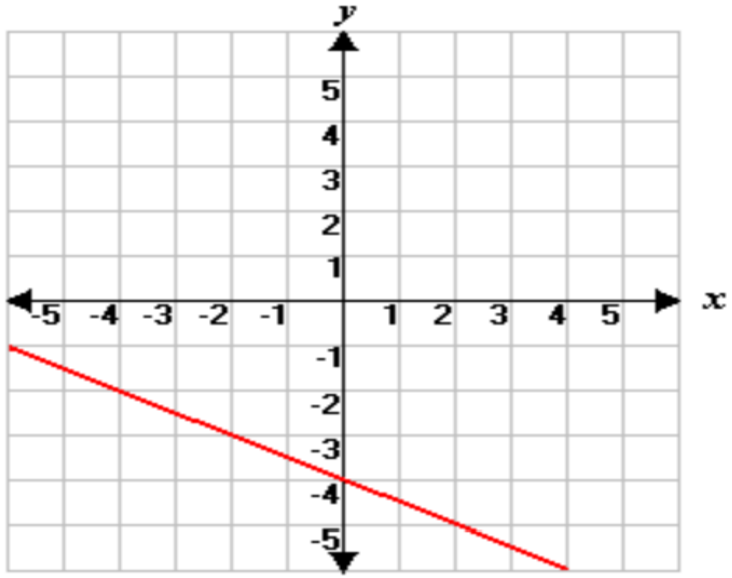
- **A.** 1,320
- **B.** 1,380
- **C.** 1,440
- **D.** 1,560

The amount left to be raised by a telethon, in dollars, after p pledges have been received is $10,000 - 25p$.

Which statement is correct?

- **A.** For every pledge received, the amount needed to be raised decreases by $25.
- **B.** For every pledge received, the amount needed to be raised decreases by $10,000.
- **C.** For every pledge received, the amount needed to be raised increases by $25.
- **D.** For every pledge received, the amount needed to be raised increases by $10,000.

Which of the following equations matches the graph below?



- **A.** $y = -\frac{1}{2}x + 4$
- **B.** $y = 2x - 4$
- **C.** $y = -\frac{1}{2}x - 4$
- **D.** $y = -2x + 4$

For St. Patrick's Day, Tara bought several bags of green candy for her friends. Each bag contained a different number of pieces of candy.

# of Pieces of Candy	Cost per Bag
7	$3.00
14	$6.00
21	$9.00
28	$12.00
35	$15.00

Identify the cost of one piece of candy.

- **A.** $2.33
- **B.** $0.50
- **C.** $0.43
- **D.** $3.00