

1

Write a linear equation in slope-intercept form given the point and slope:

$$(-6, -11); \text{ slope} = \frac{1}{2}$$

**2**

Write a linear equation in slope-intercept form given the point and slope:

$$(3, -8); \text{ slope} = -3$$

**3**

Write a linear equation in slope-intercept form given the point and slope:

$$(5, -9); \text{ slope} = -\frac{2}{5}$$

**4**

Write a linear equation in slope-intercept form given the point and slope:

$$(-4, -7); \text{ slope} = 1$$



5

Write a linear equation in slope-intercept form given the point and slope:

$$(8, 1); \text{ slope} = \frac{3}{4}$$

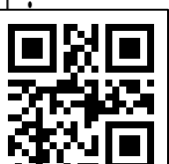


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6

Write a linear equation in slope-intercept form given the point and slope:

$$(-4, 1); \text{ slope} = 0$$



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Write a linear equation in slope-intercept form given the two points:

$$(-3, -7) \text{ and } (2, 3)$$

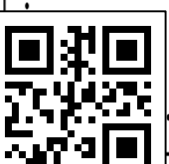


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Write a linear equation in slope-intercept form given the two points:

$$(-6, -2) \text{ and } (3, -5)$$



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Write a linear equation in slope-intercept form given the two points:

$(-1, -6)$ and $(1, -8)$



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Write a linear equation in slope-intercept form given the two points:

$(-4, 3)$ and $(-2, 6)$



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Write a linear equation in slope-intercept form given the two points:

$(-1, 1)$ and $(2, -11)$

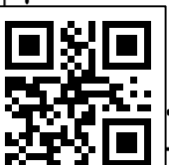


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Write a linear equation in slope-intercept form given the two points:

$(-10, 0)$ and $(5, 3)$



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13

Starting at sunrise, the temperature rose 2.5° every hour. After 8 hours, the temperature was 67° .

- a) Write an equation to model the temperature, y , after x hours after sunrise.
- b) If sunrise was at 6:00 a.m., what is the temperature at noon?



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15

Jack's grandfather gave his parents a check to start a college savings account. They opened the account with the check, and then deposited \$175 per month since. After 5 years, there is \$13,000 in the account. (This does not include interest).

- a) Write an equation to model the account balance, y , after x years.
- b) What was the original check amount from Jack's grandfather?

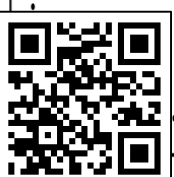


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14

The aquarium is draining a large fish tank. The pump they are using can drain 24 gallons per hour. After 3 hours, there are 78 gallons left in the tank.

- a) Write an equation to model the water left in the tank after, y , after x hours of draining.
- b) How many gallons were originally in the tank?



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The Clay family is taking a road trip from Philadelphia to visit family in Nashville. They are averaging 55 miles per hour. After 4 hours, they have 605 miles to go.

- a) Write an equation to model the miles left to travel, y , after x hours.
- b) Approximate their total travel time.



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11

Ben and Julia rented a truck from the same company to move to college. Ben drove 150 miles and paid \$64.95 while Julia drove 84 miles and paid \$45.15.

- a) Write an equation to model the total amount due, y , after driving x miles.
- b) What is the cost per mile?



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Richard owns a plumbing company. He charged one client \$72 for two hours of work and another client \$162 for five hours of work.

- a) Write an equation to model the total amount due, y , after x hours of work.
- b) If Richard was at a home from 11:00 a.m. to 2:30 p.m., what would he charge?

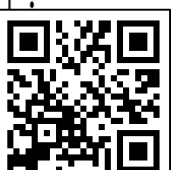


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Allie orders candles from an online company that offers flat rate shipping. She placed an order for 4 candles for \$35. A few months later, she placed an order for 12 candles for \$95.

- a) Write an equation to model the total cost, y , for ordering x candles.
- b) How much is shipping?



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Marcus is trying to lose weight for next football season. Four weeks into his diet, he weighed 232 pounds. At nine weeks, he weighed 224.5 pounds.

- a) Write an equation to model Marcus's weight, y , after x weeks into his diet.
- b) How many weeks will it take Marcus to reach his goal weight of 214 pounds?



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