

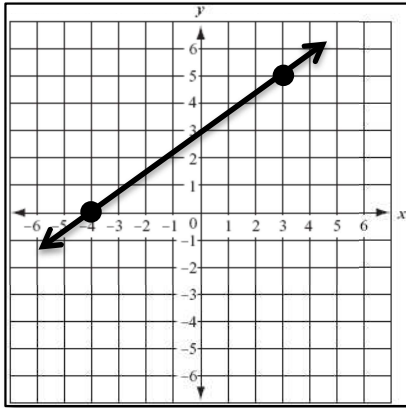
CALCULATING SLOPE FROM A GRAPH

Station A



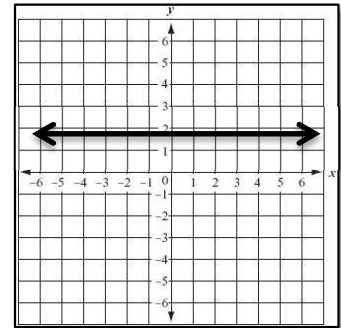
ONE

Calculate the slope of the line.



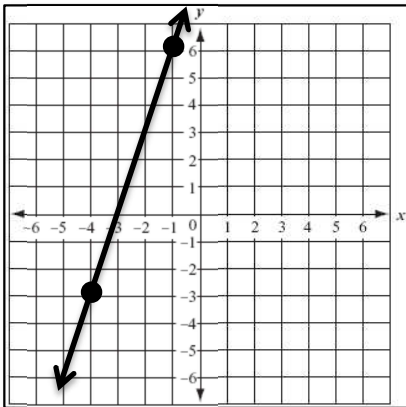
TWO

Calculate the slope of the line.



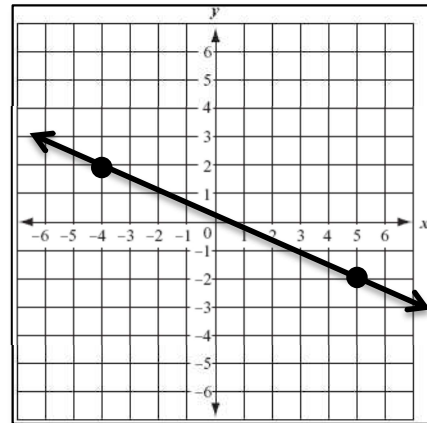
THREE

Calculate the slope of the line.



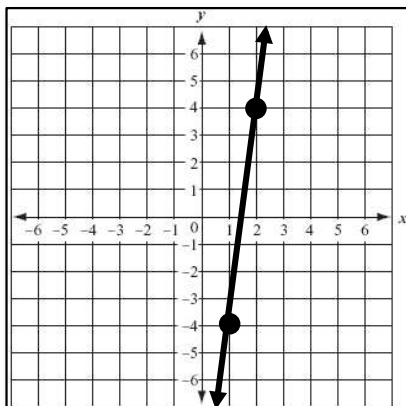
FOUR

Calculate the slope of the line.



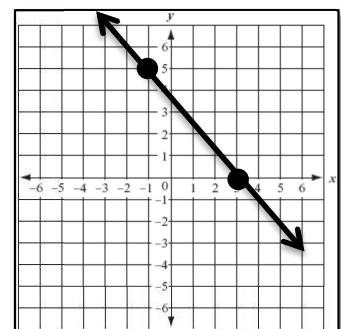
FIVE

Calculate the slope of the line.



SIX

Calculate the slope of the line.



CALCULATING SLOPE FROM POINTS



ONE

Calculate the slope of the line that passes between the two points.

$$(1, -8) \text{ and } (-3, 0)$$

TWO

Calculate the slope of the line that passes between the two points.

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

THREE

Calculate the slope of the line that passes between the two points.

$$(-6, 3) \text{ and } (12, -3)$$

FOUR

Calculate the slope of the line that passes between the two points.

$$(5, -11) \text{ and } (15, 9)$$

FIVE

Calculate the slope of the line that passes between the two points.

$$(10, 2) \text{ and } (4, -8)$$

SIX

Calculate the slope of the line that passes between the two points.

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

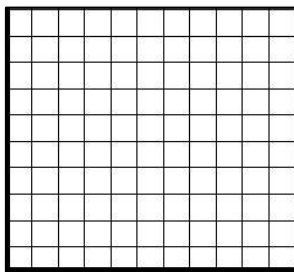
GRAPHING LINEAR EQUATIONS IN SLOPE-INTERCEPT FORM

Station c

ONE

The amount of money a student spends at the end of year carnival can be represented by the given equation. Graph the equation on the coordinate plane.

$$y = \frac{1}{2}x + 3$$



TWO

If y represents the total spent at the carnival, and x represents the number of ride tickets purchased, explain what the slope means in the context of the situation in #1.

THREE

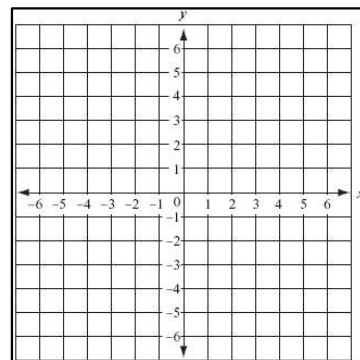
When graphed, what will be the slope and the y -intercept of the line represented by the given equation?

$$y = -x - 5$$

FOUR

Graph the line represented by the given equation.

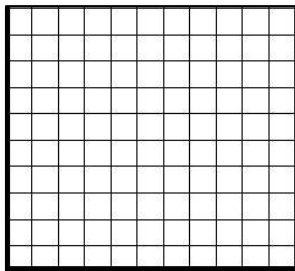
$$y = -\frac{2}{3}x + 6$$



FIVE

Kendrick is saving money for his family vacation. The amount of money he saves can be represented by the equation below. Graph the equation on the coordinate plane.

$$y = 20x + 100$$



SIX

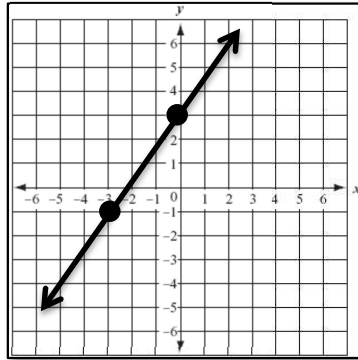
If y represents the total amount Kendrick has saved, and x represents the number of weeks he saves money, explain what the slope means in the context of the situation in #5.

WRITING LINEAR EQUATIONS FROM GRAPHS IN SLOPE-INTERCEPT FORM

Station 2

ONE

Write an equation for the line graphed below.



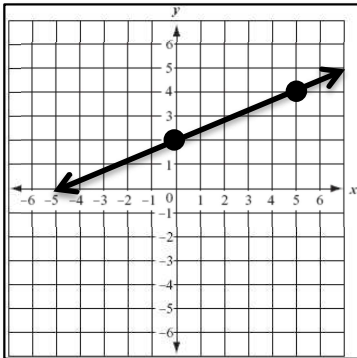
TWO

Write an equation for the line that passes through the two points.

$(12, 6)$ and $(4, -8)$

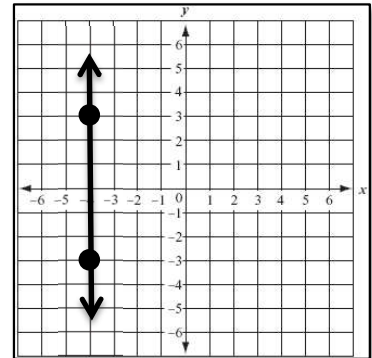
THREE

Write an equation for the line graphed below.



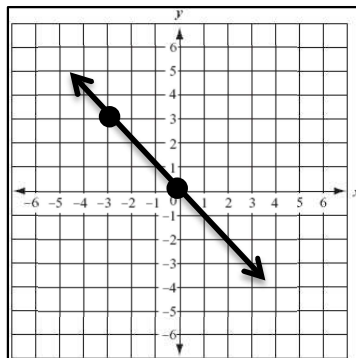
FOUR

Write an equation for the line graphed below.



FIVE

Write an equation for the line graphed below.



SIX

Write an equation for the line that passes through the two points.

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

SOLVING MULTI-STEP EQUATIONS

Station e



ONE

Solve. Round to the nearest hundredth if necessary.

$$-6x - 2x = 16$$

TWO

Solve. Round to the nearest hundredth if necessary.

$$-2 = -(x - 8)$$

THREE

Solve. Round to the nearest hundredth if necessary.

$$-6(1 - 5x) = 54$$

FOUR

Solve. Round to the nearest hundredth if necessary.

$$-5x - 8(1 + 6x) = -8$$

FIVE

Solve. Round to the nearest hundredth if necessary.

$$x - 1 = 5x + 3x - 8$$

SIX

Solve. Round to the nearest hundredth if necessary.

$$-(7 - 4x) = 9$$