Review for Math 8 Unit 11 Test – Linear Functions & Equations of Lines



1. The graph shows the time and distance of a car during a
road trip. What does the slope represent?
2. What is the equation of a line that has a slope of -5 and goes through the origin?

A) y = -5x

B) y = -2

C) y = x - 5

D) y = -5x - 5

1. What is the equation of a line that crosses the y -axis at (0, 3) and has a slope of -4?

A)

B)

C)

D)



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represents this line?



1. A line is graphed in the coordinate grid. Which equation
represents this line?
2. Consider the graph of the line shown. If the equation of the
line is written in the form y = mx + b what is the value of m?



A) -5

B) -1

C) ½

D) 5

1. Which graph represents a line with slope equal to -1?

A) Graph A



B) Graph B

C) Graph C

D) Graph D

1. What is the slope and the y -intercept of a line whose equation is y  = 2x + 5?

A) slope = 2; y -intercept = 5

B) slope = 5; y -intercept = 2

C) slope = -2; y -intercept = -5

D) slope = -5; y -intercept = 5

1. What is the slope in the equation x = 11?

A) 11

B) 1

C) 0

D) no slope

1. Which choice represents an equation of a line with slope of  and a y-intercept of 4?

A) 2y - x = 8

B) 2y + 4x = 2

C) 4y - 4x = 8

D) 2y - 2x = 4

1. What is the slope of a line given the points (0, -2) and (6, 2)?

B)

C)

D)

1. Which choice would most likely represent the graph of y = -5x + 5?

A)



B)



C)



D)



1. Which expression represents a negative slope?

D)

1. What is the equation of a line with a slope of 4 and passing through the point (5, 6)?

A) y = 4x − 26

B) y = −4x − 14

C) y = 4x − 14

D) y = 4x + 26

1. What is the y -intercept of  2y + 5x = −20 ?

A) -10

B) -20

C) -4

D) 5

1. What are the x and y -intercepts for y = 4x + 2?

A) x-intercept ( 0, -2); y-intercept ( -2, 0)

B) x-intercept (-2, 0); y-intercept (0, 2)

C) x-intercept (2, 0); y-intercept (0, -2)

D) x-intercept ( 0, 2); y-intercept (-2, 0)

1. Analyze this equation x − 5y = 15. What is the y -intercept of this equation?

A) -3

B) -5

C) 1

D) 10

1. Which line has an undefined slope?

A)



B)



C)



D)



1. The table shows a set of points on a line. What is the slope of the line?

A) −3



B) −13

C) 13

D) 3



1. The line represents the time it takes water to drain
from a bathtub. What is the slope of this line?

A) – 1

B)

C)

D) 1

1. Two linear equations are given. What do the two have in common?

A) the x -intercept

y – 8 = 4x

5y = 20x − 2

B) the y -intercept

C) the slope

D) The equations represent the same line.

1. What is the slope of the line graphed in the
coordinate plane?



A) -5

B) 0

C) 5

D) Undefined

1. Which equation would pass through the origin and have a slope of  ?

A)

B)

C)

D)



1. The table gives ordered pairs of a function. Which
rule describes the ordered pairs in the table?

A) y  = x  + 10

B) y  = 3x  + 4

C) y  = 6x  + 5

D) y = 8x  + 3

1. When plotted on the coordinate plane, which line will have the steepest slope?

A) y  = -5x

B) y  = 8x

C) y  = -11x

D) y = 9x