STAPLE

Name _____ *Score*: $\frac{\quad}{5}$

Gillespie
Course 3: Gauge Ch3i
Proportional Relationships and Slope

This assignment is a gauge and will not be graded

1) Find the slope of the line that passes through $(6, -10)$ and $(-15, 15)$.

a) $\frac{21}{25}$

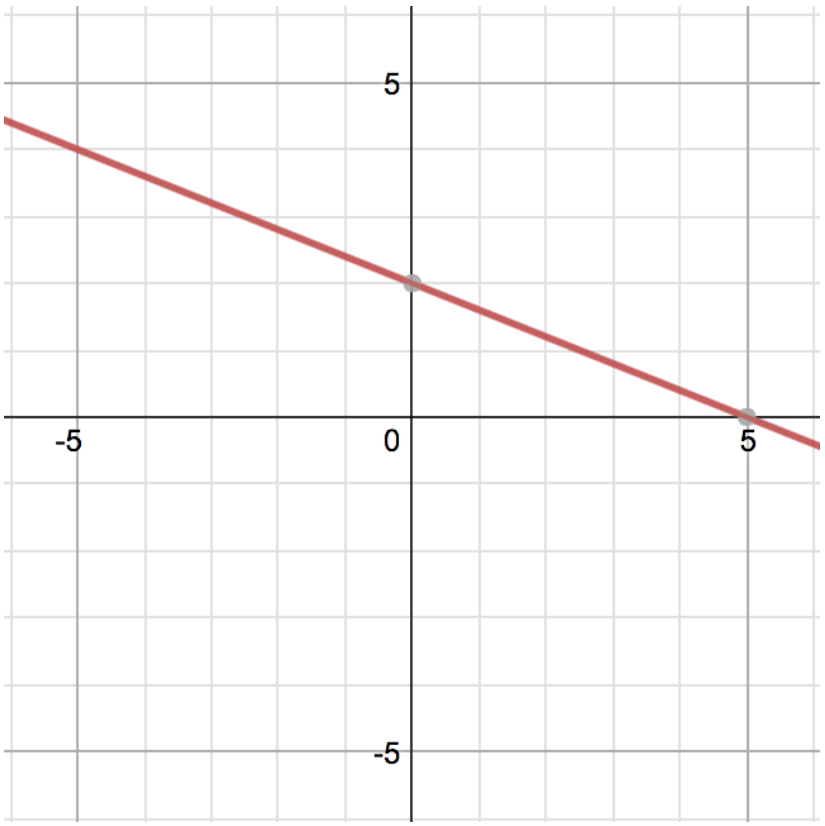
b) $-\frac{21}{25}$

c) $\frac{25}{21}$

d) $-\frac{25}{21}$

2) Find the equation for the linear function.

hint: $y = mx + b$
$m = slope$
$b = y - int$



a) $y = \frac{2}{5}x + (-2)$

b) $y = \frac{2}{5}x + 2$

c) $y = -\frac{2}{5}x + 2$

d) $y = \frac{2}{5}x + (-2)$

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3) What is the equation of the line that passes through $(-6, -5)$ and $(21, 4)$?

$hint$: $y = mx + b$
$m = slope$
$b = y - int$

a) $y = 3x - 3$

b) $y = \frac{1}{3}x - 3$

c) $y = -3x - 3$

d) $y = -\frac{1}{3}x - 3$

4) Find the x- and y-intercepts of the line $4x - 7y = 28$

$hint$:
$x - int$: $(x, 0)$
$y - int$: $(0, y)$

a) $x - int = 7$; $y - int = -4$

b) $x - int = -7$; $y - int = 4$

c) $x - int = 7\frac{1}{2}$; $y - int = -4$

d) $x - int = -7\frac{1}{2}$; $y - int - 4$

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5) State the slope and the y-intercept for the graph of the equation $y = -2x + 6$

$hint: y = mx + b$
$m = slope$
$b = y - int$

a) 6 ; -2

b) 6 ; 2

c) -2; 6

d) 2 ; 6