STAPLE

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

Gillespie
Course 3: Gauge Ch3d
Proportional Relationships and Slope

This assignment is a gauge and will not be graded

1) Determine the constant rate of change between *x* and *y* in each table.

$hint: \frac{change\ in\ y}{change\ in\ x}$

$\#\ of\ batches (x)$	4	8	12
$cups\ of sugar\ (y)$	2.4	4.8	7.2

a) $0.6\ cup\ per\ batch$

b) $1\ cup\ per\ batch$

c) $2.4\ cups\ per\ batch$

d) $4.8\ cups\ per\ batch$

2) Find the slope of the line that passes through $(2, 1)$ and $(-5, -1)$.

a) $\frac{5}{5}$

b) $-\frac{1}{3}$

c) $\frac{2}{7}$

d) 1

3) Find the slope of the line that passes through $(1, 4)$ and $(-3, -1)$.

a) $-\frac{3}{4}$

b) $-\frac{1}{2}$

c) $\frac{3}{4}$

d) $\frac{5}{4}$

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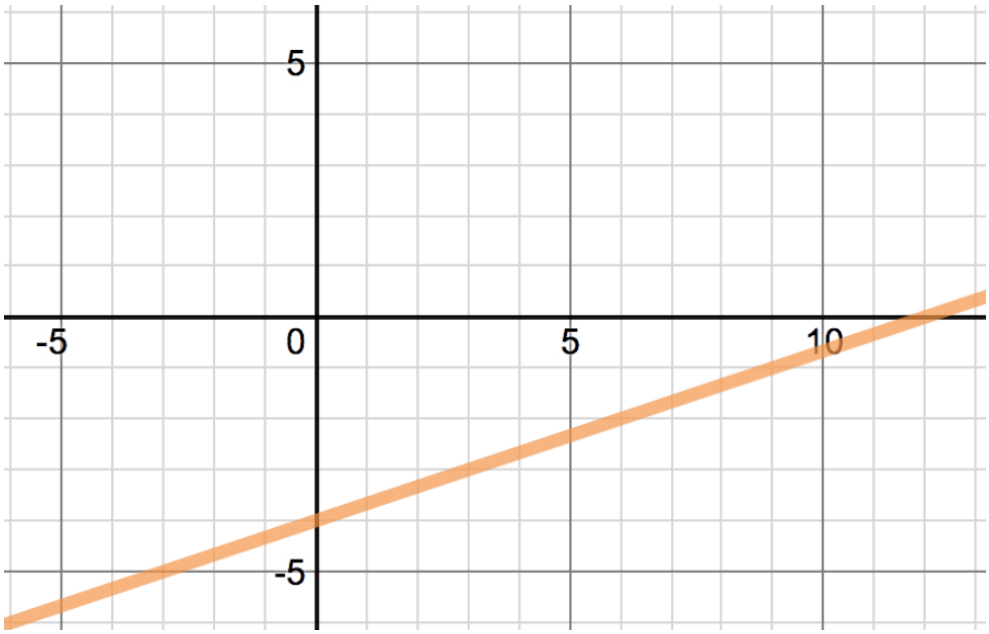
4) Find the equation for the linear function.

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



a) $y = \frac{1}{3}x + 1$

b) $y = -3x - 1$

c) $y = 3x - 4$

d) $y = \frac{1}{3}x - 4$

5) Determine whether the data set shows direct variation.

$hint: y = kx$

$time; min(x)$	3	4	5	6
$distance; mi\ (y)$	9	12	15	18

a) no

b) $no\ there\ isn't\ a\ constant\ of\ variation$

c) $yes; y = 3x$

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