

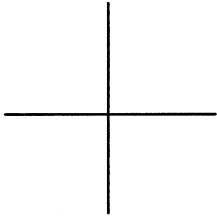
Name: _____

1. Fill in the blanks with the correct answer.

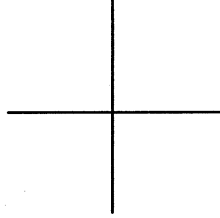
- a) The slope of the line $y = \frac{-1}{2}x + 7$ is _____
- b) The y-intercept of the line $y = \frac{-1}{2}x + 7$ is _____
- c) Write the equation of the line with slope of 3 and y-intercept of -1 _____

2. Draw a simple diagram to show each of the following slopes.

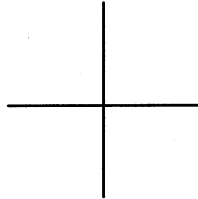
Positive Slope



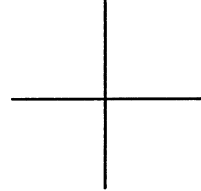
Negative Slope



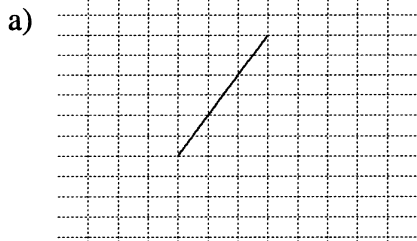
Zero Slope



Undefined Slope



3. Find the slope of each of the following. State the formula used.



b) A(1, 3), B(6, 7)

c) C(5, -10), D(2, 2)

d) E(-4, 5), F(-8, -2)

4. i) State the slope and y-intercept for each line.

ii) Graph two lines per grid below using the slope and y-intercept. Fully label the grids.

a) $y = \frac{2}{3}x - 4$

b) $y = -\frac{1}{4}x + 2$

c) $y = -2x$

d) $y = 5$

slope = _____

slope = _____

slope = _____

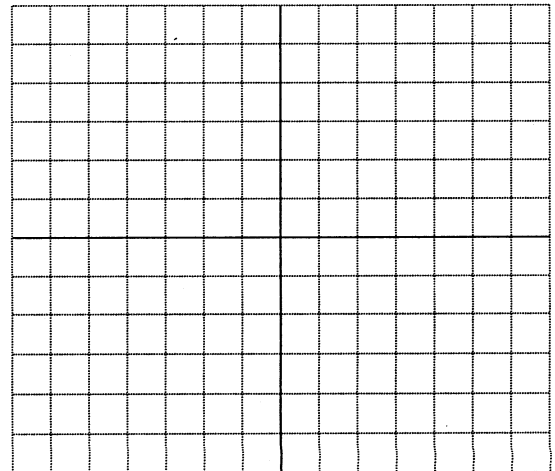
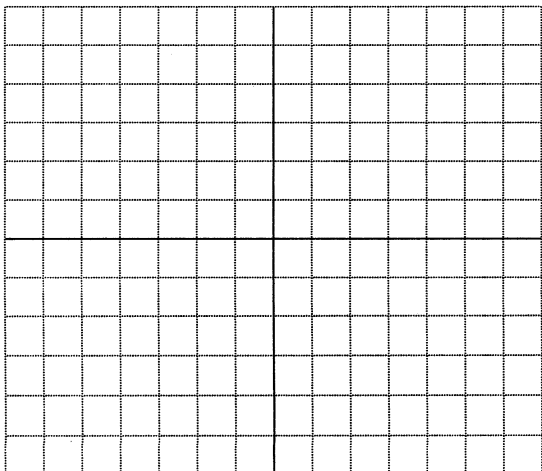
slope = _____

y-int = _____

y-int = _____

y-int = _____

y-int = _____



Name: _____

1. Fill in the blanks with the correct answer.

a) The slope of the line $y = \frac{-1}{2}x + 7$ is

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

b) The y-intercept of the line $y = \frac{-1}{2}x + 7$ is

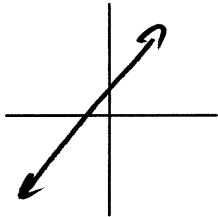
$$+7$$

c) Write the equation of the line with slope of 3 and y-intercept of -1

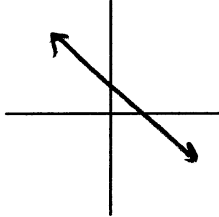
$$y = 3x - 1$$

2. Draw a simple diagram to show each of the following slopes.

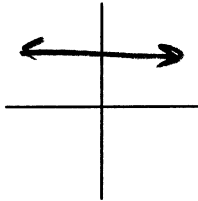
Positive Slope



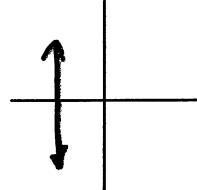
Negative Slope



Zero Slope

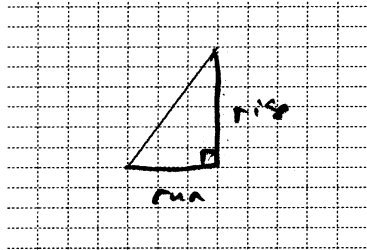


Undefined Slope



3. Find the slope of each of the following. State the formula used.

a)



$$\begin{aligned} \text{slope} &= \frac{\text{rise}}{\text{run}} \\ &= \frac{3}{6} \\ &= 2 \end{aligned}$$

b) $A(1, 3), B(6, 7)$

$$\begin{aligned} \text{slope} &= \frac{\Delta y}{\Delta x} \\ &= \frac{(3) - (7)}{(1) - (6)} \\ &= \frac{-4}{-5} = \frac{4}{5} \end{aligned}$$

c) $C(5, -10), D(2, 2)$

$$\begin{aligned} \text{slope} &= \frac{\Delta y}{\Delta x} \\ &= \frac{(-10) - (2)}{(5) - (2)} \\ &= \frac{-12}{3} = -4 \end{aligned}$$

d) $E(-4, 5), F(-8, -2)$

$$\begin{aligned} \text{slope} &= \frac{\Delta y}{\Delta x} \\ &= \frac{(5) - (-2)}{(-4) - (-8)} \\ &= \frac{7}{4} \end{aligned}$$

4. i) State the slope and y-intercept for each line.

ii) Graph two lines per grid below using the slope and y-intercept. Fully label the grids.

a) $y = \frac{2}{3}x - 4$

slope = $\frac{2}{3}$

y-int = -4

b) $y = -\frac{1}{4}x + 2$

slope = $-\frac{1}{4}$

y-int = 2

c) $y = -2x$

slope = $-\frac{2}{1}$

y-int = 0

d) $y = 5$

slope = 0

y-int = 5

