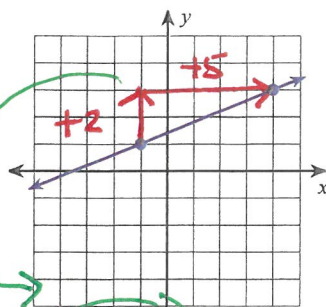


4.4 Practice (slope)

Date _____ Period _____

Find the slope of each line using rise over run. Clearly show your work using with the correct variable name

1)

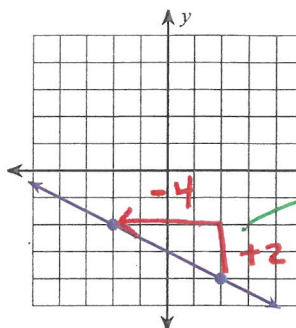


$$m = \frac{2}{5}$$

WORK:

- SHOW TRIANGLE WITH ARROWS AND H'S
- WRITE $m =$ —
- Reduce FRACTION
- circle

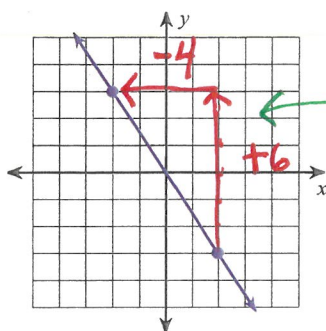
2)



$$m = \frac{2}{-4}$$

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

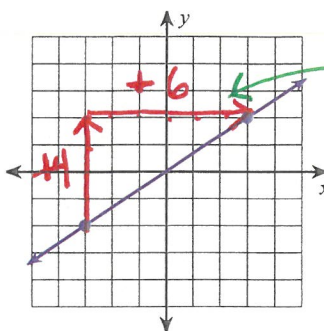
3)



$$m = \frac{6}{-4}$$

$$m = -\frac{3}{2}$$

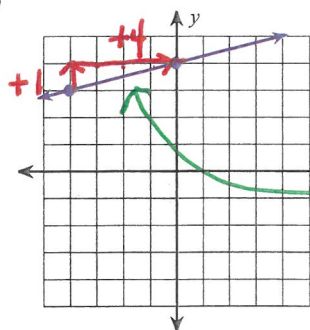
4)



$$m = \frac{4}{6}$$

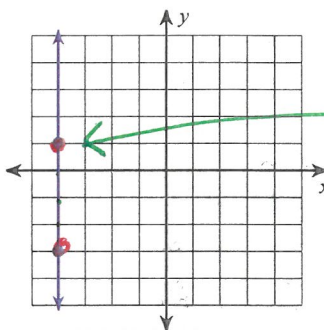
$$m = \frac{2}{3}$$

5)



$$m = \frac{1}{4}$$

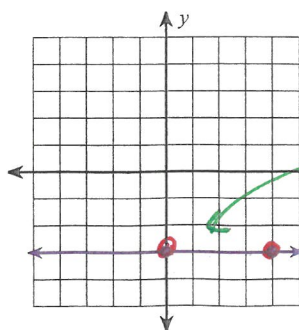
6)



$$m = \frac{4}{0}$$

$$m = \text{UNDEFINED}$$

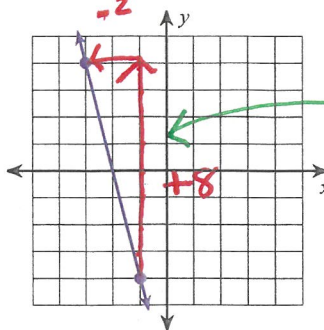
7)



$$m = \frac{0}{4}$$

$$m = 0$$

8)



$$m = \frac{8}{-2}$$

$$m = -4 \text{ or } -\frac{4}{1}$$

Find the slope of the line. Clearly show your work using with the correct variable name

9) $(3, 10), (-3, -2)$ $\checkmark m = \frac{y_2 - y_1}{x_2 - x_1}$

$$M = \frac{-2 - 10}{-3 - 3} = \frac{-12}{-6}$$

$$M = 2 \text{ or } \frac{2}{1}$$

10) $(-15, -14), (5, -18)$ $\checkmark m = \frac{y_1 - y_2}{x_1 - x_2}$

$$M = \frac{-14 + 18}{-15 - 5} = \frac{4}{-20}$$

$$M = -\frac{1}{5} \text{ or } \frac{-1}{5} \text{ or } \frac{1}{-5}$$

11) $(-8, -7), (-20, 3)$

$$M = \frac{3 + 7}{-20 + 8} = \frac{10}{-12}$$

$$M = -\frac{5}{6} \text{ or } \frac{-5}{6} \text{ or } \frac{5}{-6}$$

12) $(18, -14), (2, 6)$

$$M = \frac{-14 - 6}{18 - 2} = \frac{-20}{16}$$

$$M = -\frac{5}{4}$$

13) $(-12, -2), (-12, -18)$

$$M = \frac{-18 + 2}{-12 + 12} = \frac{-16}{0}$$

$$M = \text{UNDEFINED}$$

14) $(-4, -14), (-16, 4)$

$$M = \frac{-14 - 4}{-4 + 16} = \frac{-18}{12}$$

$$M = -\frac{3}{2}$$

15) $(15, 16), (14, 16)$

$$M = \frac{16 - 16}{14 - 15} = \frac{0}{-1}$$

$$M = 0$$

16) $(17, 0), (5, -16)$

$$M = \frac{0 + 16}{17 - 5} = \frac{16}{12}$$

$$M = \frac{4}{3}$$