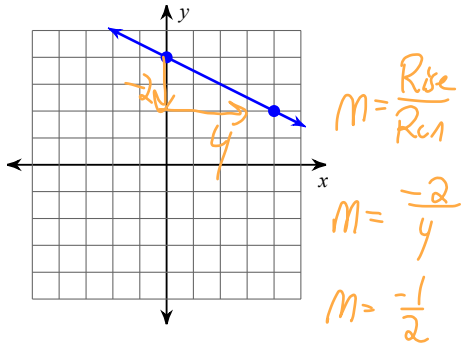


Homework 6.3 Slope of a Line

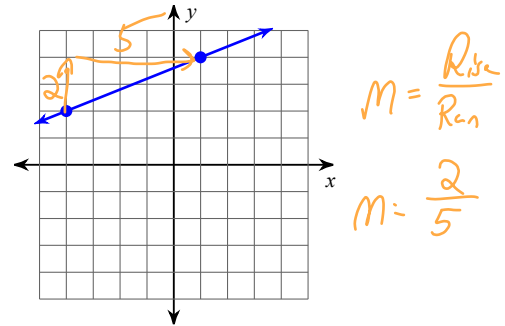
Date _____

Find the slope of each line. Use the points provided.

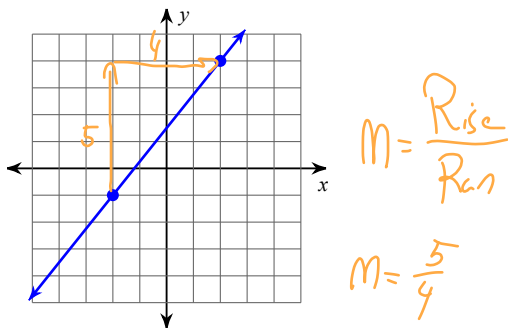
1)



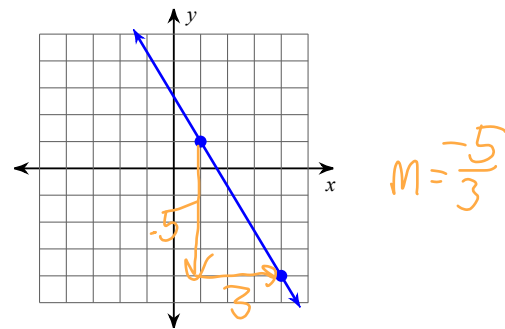
2)



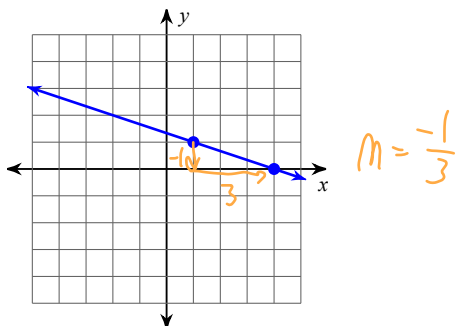
3)



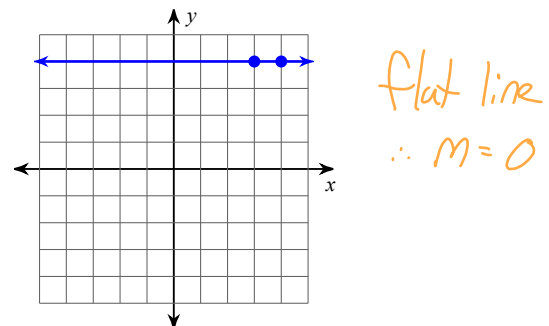
4)



5)

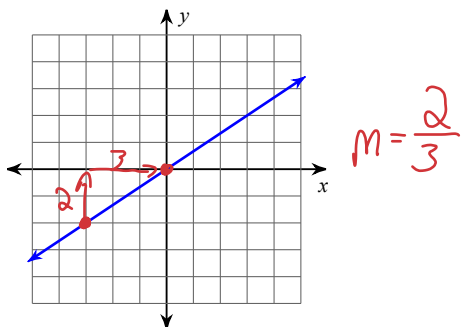


6)

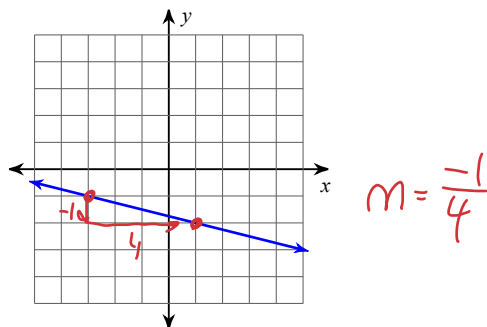


Find the slope of each line. First find two points.

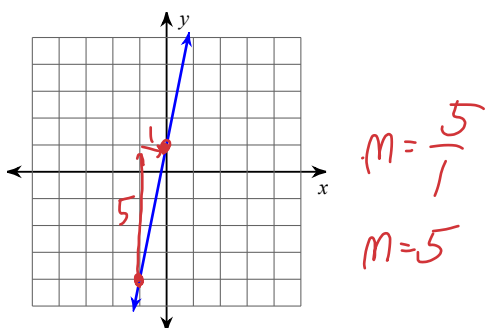
7)



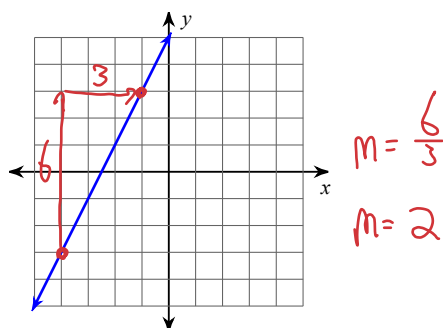
8)



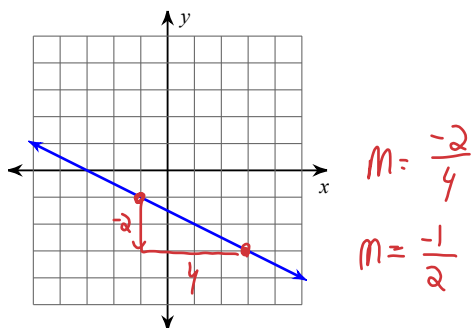
9)



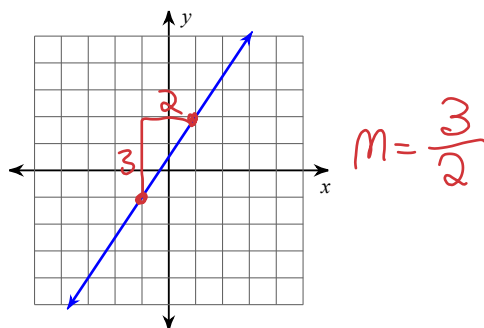
10)



11)



12)



Find the slope of the line given the points. Use the formula or the idea of "change".

13) $(\overset{x_1}{-19}, \overset{y_1}{5}), (\overset{x_2}{-17}, \overset{y_2}{15})$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{15 - 5}{-17 - (-19)} = \frac{10}{2} = 5$$

14) $(13, -20), (16, -10)$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{-10 - (-20)}{16 - 13} = \frac{10}{3}$$

15) $(\overset{x_1}{18}, \overset{y_1}{-8}), (\overset{x_2}{20}, \overset{y_2}{-19})$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{-19 - (-8)}{20 - 18}$$

$$m = \frac{-11}{2}$$

16) $(\overset{x_1}{-9}, \overset{y_1}{1}), (\overset{x_2}{-19}, \overset{y_2}{-14})$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{-14 - 1}{-19 - (-9)}$$

$$m = \frac{-15}{-10}$$

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

17) $(\overset{x_1}{-14}, \overset{y_1}{-5}), (\overset{x_2}{9}, \overset{y_2}{11})$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{11 - (-5)}{9 - (-14)}$$

$$m = \frac{16}{23}$$

18) $(\overset{x_1}{-8}, \overset{y_1}{-12}), (\overset{x_2}{2}, \overset{y_2}{-2})$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{-2 - (-12)}{2 - (-8)}$$

$$m = \frac{10}{10}$$

$$m = 1$$

$$19) (-3, -2), (-17, -11)$$

$\xrightarrow{-9}$
 $\xrightarrow{-14}$

$$m = \frac{-9}{-14}$$

$$m = \frac{9}{14}$$

$$20) (-11, -14), (-7, 4)$$

$\xrightarrow{+18}$
 $\xrightarrow{+4}$

$$m = \frac{18}{4}$$

$$m = \frac{9}{2}$$

$$21) (-19, -14), (-5, 9)$$

$\xrightarrow{+23}$
 $\xrightarrow{+14}$

$$m = \frac{23}{14}$$

$$22) (-17, -11), (-9, 1)$$

$\xrightarrow{+12}$
 $\xrightarrow{+8}$

$$m = \frac{12}{8}$$

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

$$23) (-17, -12), (2, -3)$$

$\xrightarrow{+9}$
 $\xrightarrow{+19}$

$$m = \frac{9}{19}$$

$$24) (7, -3), (-2, -17)$$

$\xrightarrow{-14}$
 $\xrightarrow{-9}$

$$m = \frac{-14}{-9}$$

$$m = \frac{14}{9}$$