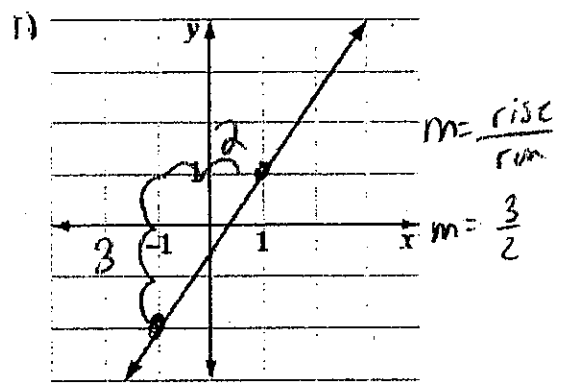


Name Key
8A; Algebra 1

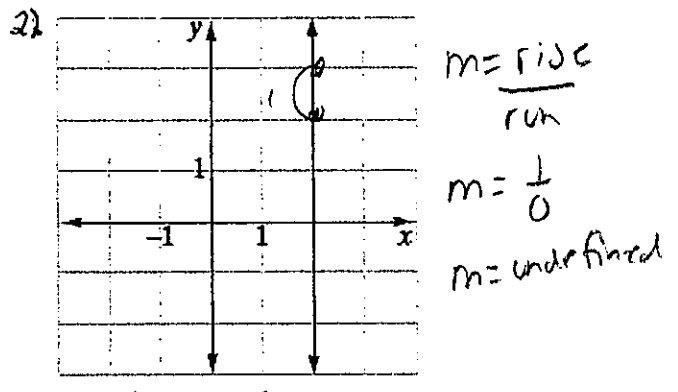
Date _____
Period _____

Homework

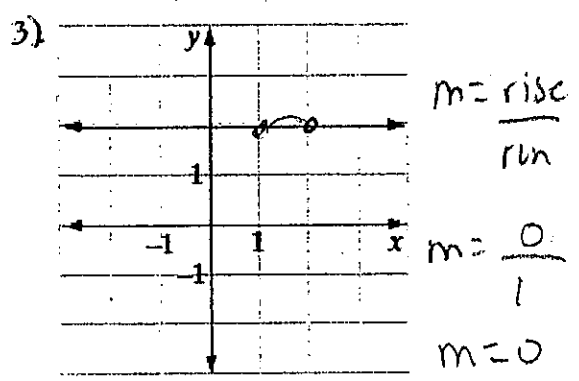
In 1-6: a. Tell whether each line has a positive slope, a negative slope, a slope of zero, or no slope.
b. Find the slope of each line that has a slope.



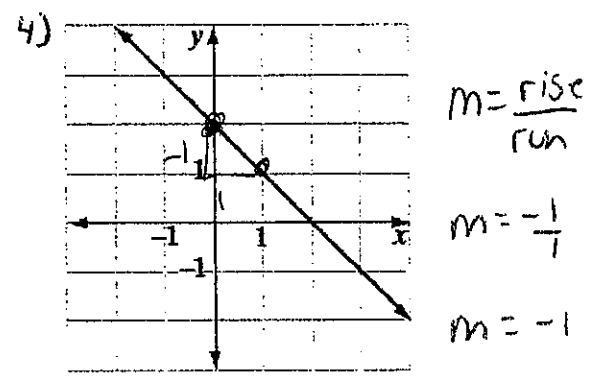
a) positive
b) $\frac{3}{2}$



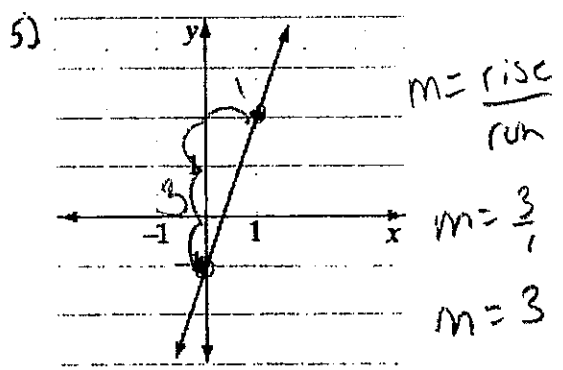
a) Undefined
b) No slope



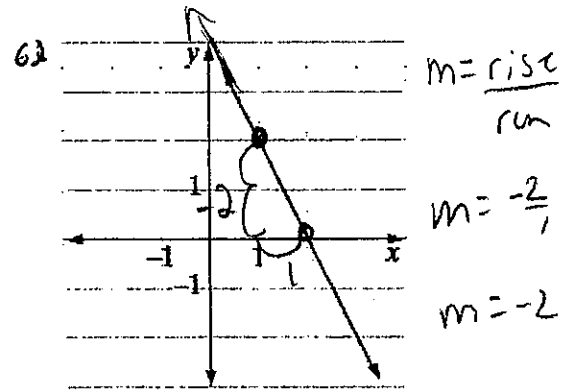
a) zero
b) zero



a) Negative
b) -1



a) positive
b) 3



a) Negative
b) -2

For 7 & 8: Find the slope of the line that passes through the given two points

7) (1,5) and (7,-8)

x_1, y_1, x_2, y_2

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

$$m = \frac{-8 - 5}{7 - 1}$$

$$m = \frac{-13}{6}$$

8) (5,-2) and (7,-8)

x_1, y_1, x_2, y_2

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

$$m = \frac{-8 - (-2)}{7 - 5}$$

$$m = \frac{-6}{2}$$

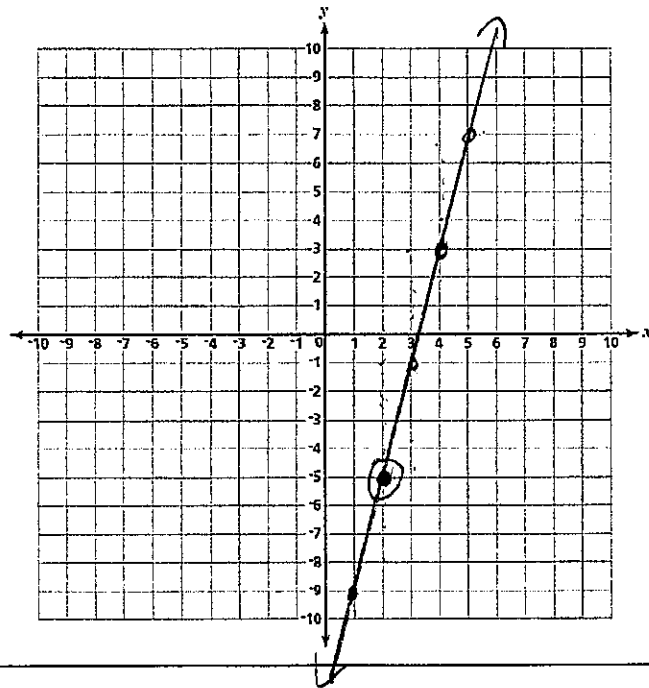
$$m = -3$$

For 9 & 10: Draw a line with the given slope, m , through the given point. Use the accompanying graph.

9) (2, -5); $m = 4$

x, y

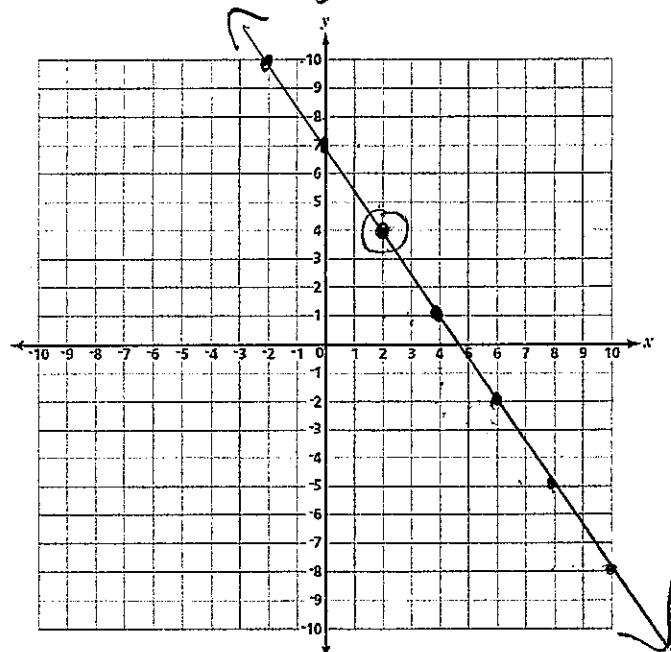
$m = \frac{4}{1}$ \uparrow
 \rightarrow



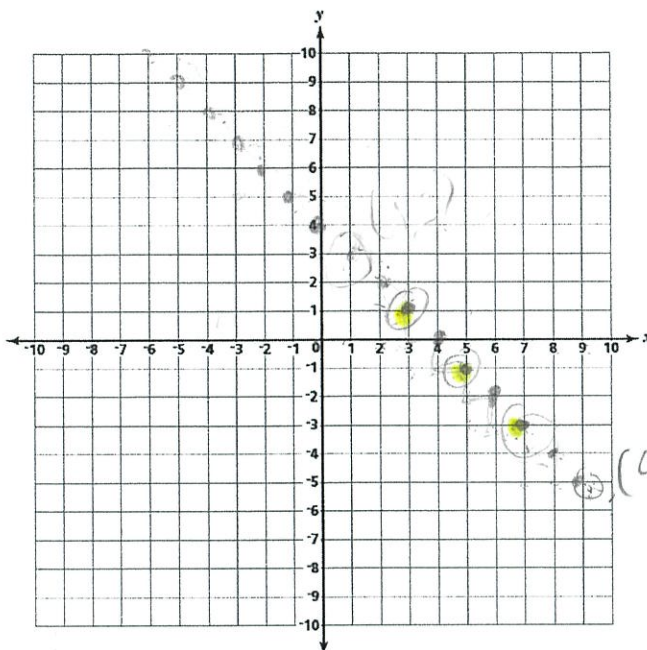
10) (2,4); $m = -\frac{3}{2}$

x, y

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

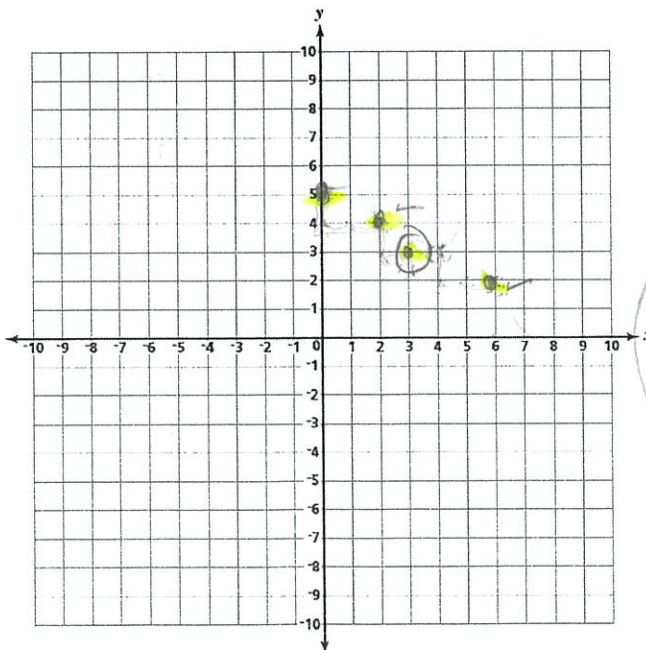


11) The points whose coordinates are $(3,1)$, $(5, -1)$, and $(7, -3)$ all lie on the same line. What could be the coordinates of another point that lies on that line? Explain how you found your answer. You may use the coordinate plane below to help you.



$(9, -5)$
 I followed the
 (pattern) slope of
 down 1 right 1

12) Of the points $(0,5)$, $(2,4)$, $(3,3)$, and $(6,2)$, which one does not lie on the same line as the other three? Explain how you found your answer. You may use the coordinate plane below to help you.



$(3, 3)$. It is
 NOT on the line.
 It does not follow
 the slope of
 Down one, right two.

4

