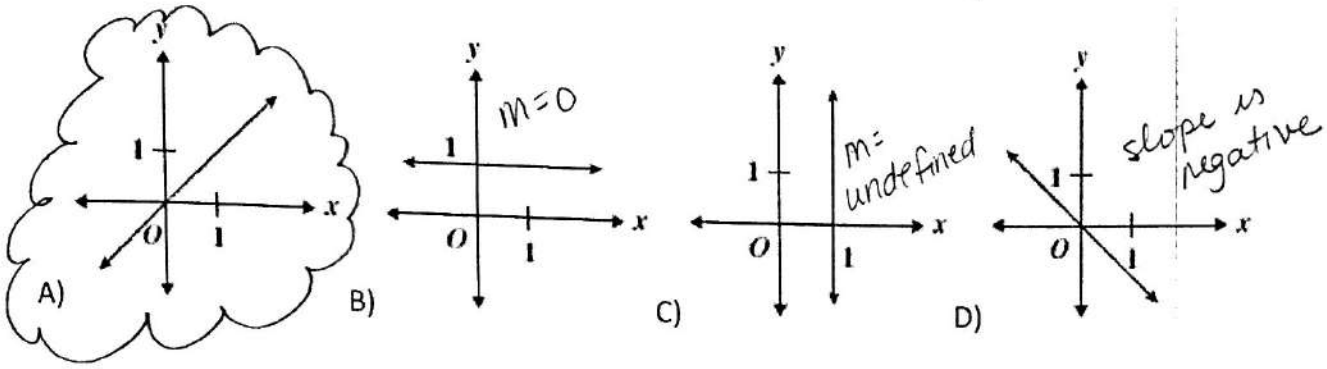


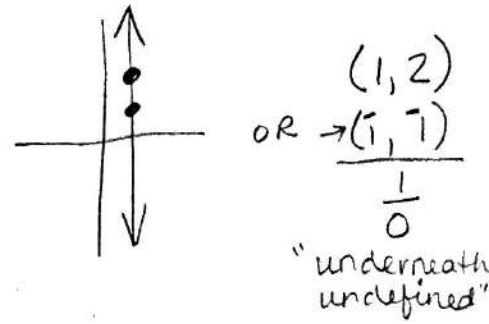
Key

1) Which of the following is the graph of a line with a slope of 1?

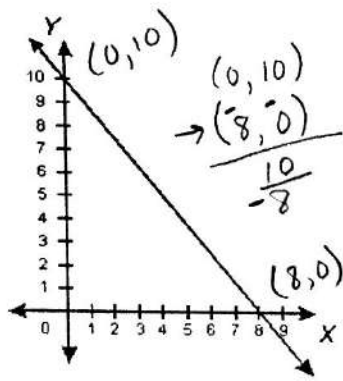


2) The slope of the line through points (1, 1) and (1, 2) is: $x=1$

- A) zero B) negative C) positive D) undefined



3) What is the slope of the line on the graph below?



A) $-\frac{5}{4}$

B) $-\frac{4}{5}$

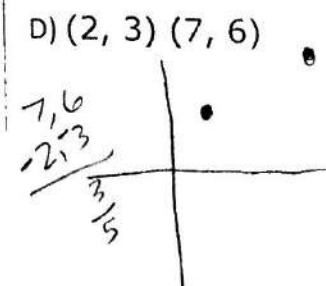
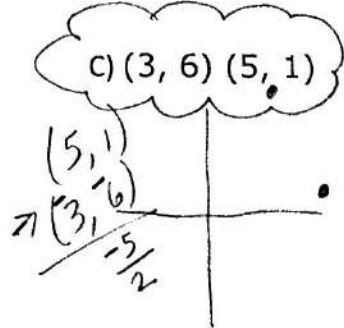
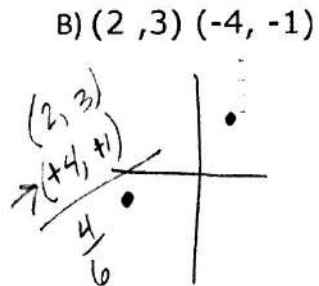
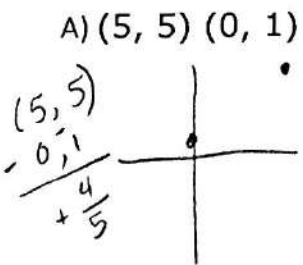
~~C) $\frac{4}{5}$ positive~~

~~D) $\frac{5}{4}$ positive~~

4) Which algebraic expression corresponds to "half of the (sum of $3x$ and 4)"?

- A) ~~$3x + 2$~~ no $\frac{1}{2}$ B) ~~$3x + 2$~~ no $\frac{1}{2}$ C) $\frac{1}{2}(3x) + 4$ $\frac{1}{2}$ of $3x$ plus 4 D) $\frac{1}{2}(3x + 4)$

5) Which of these sets of ordered pairs would define a line with a negative slope?



6) Michael runs 3.5 miles in 30 minutes. If he continues at this rate for 2 hours, determine his rate of change.

$$\frac{3.5}{30} = \frac{7}{60} = \frac{7}{120 \text{ min}}$$

(found /hour because all the answers = 120 min)

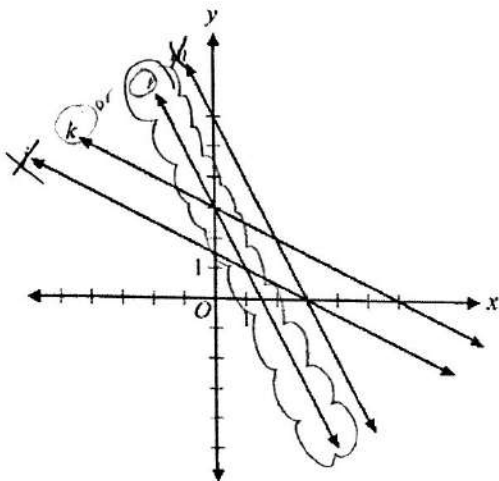
A) 3.5 miles/hour ~~X~~

B) 7 miles/hour

C) 14 miles/hour ~~X~~

D) 10 miles/hour ~~X~~

7) Use this figure to answer the question. Which line in the figure above has a y-intercept of 3 and a slope of -2?



A) j

B) k

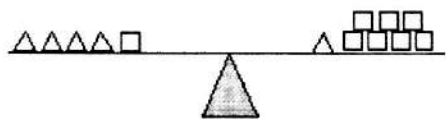
C) l

D) m

find the lines w/
y-intercept of 3

then compare slopes

8) The balance below shows the equation $4x + 1 = x + 7$. What is the value of x?



$$\begin{array}{r} 4x + 1 = x + 7 \\ -x \quad -1 \\ \hline 3x = 6 \end{array}$$

A) $\frac{8}{5}$

B) 2

C) $\frac{8}{3}$

D) 3

9) Linda is one year less than twice as old as her brother Paul. Which formula below correctly represents this situation?

A) $L = 2P$ ~~X~~

B) $L = 2(P - 1)$ ~~X~~

C) $L = 2P - 1$

D) $L = \frac{1}{2}(P - 1)$ ~~X~~

10) If the equations $y = 3x + 5$ and $y = 3x - 5$ were graphed, which statement below would be true?

A) The two lines will be parallel.

B) The two lines would intersect at the ~~X~~ origin.

C) The two lines would intersect at right ~~X~~ angles.

D) The two lines would intersect at the point ~~X~~ (5, -5).

slopes match so
No Solution

Matching slopes
means parallel lines