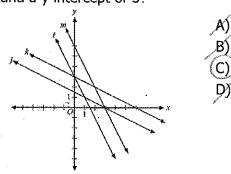
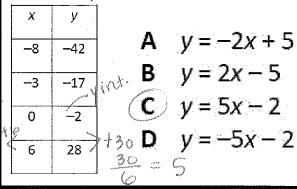
Use similar trangles to explain why the slope m is the same between any two distinct

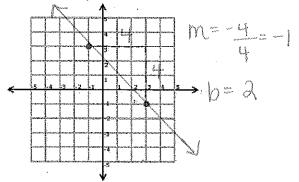
Which line in the figure below has a slope of -2and a y intercept of 3?



If a line contains the points in the table below, what is its equation?



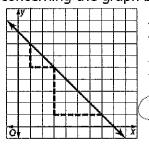
If a line passes through the two points below, what is its equation?



A)
$$y = x + 2$$
 C) $y = 2x - 1$
B) $y = -x + 2$ D) $y = 2x + 1$

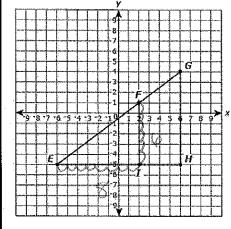
C)
$$y = 2x - 1$$

Which of the following statements is NOT true concerning the graph below?



- A) The simplified ratio of the vertical side length to the horizontal side length of each triangle is 1.
- B) The slope of the line is 1
- C) The slope of the line is -1
- D) The smaller triangle and the larger triangle are similar.

Triangle EGH is graphed on a coordinate grid.



Part A: Use the Pythagorean Theorem to find the length

of side
$$\overline{EF}$$
. Show your work.

 $Q^2 + b^2 = C^2$
 $6^2 + 8^2 = C^2$
 $36 + 64 = C^2$
 $100 = C^2$

Part B: What is the slope of the line containing \overline{EF} ? What is the slope of the line containing \overline{EG} ? Explain the relationship between the slopes of \overline{EF} and \overline{EG} . Proportional

$$EF = \frac{6}{8} = \frac{3}{4}$$
 $EG = \frac{9}{10} = \frac{3}{4}$

Part C: Write an equation to represent the line that passes through points E and G. If x=12, in the equation you wrote, what is the value of y? Show your work.

$$M = \frac{1}{8} = \frac{3}{4}$$
 yint = -.5
 $V = \frac{3}{4} \times -.5$ $V = \frac{3}{4} (\frac{12}{4}) -.5$
 $V = \frac{3}{4} \times -.5 = 8.5$