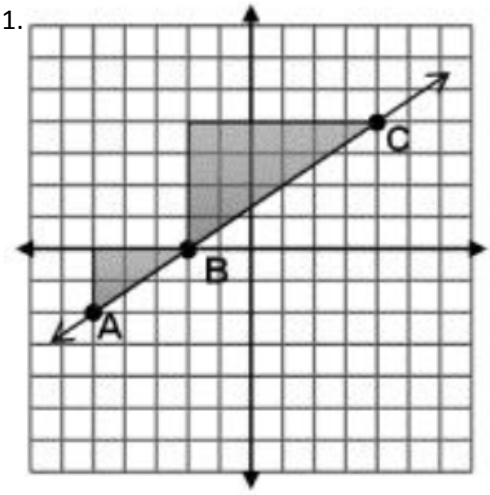
PRACTICE: LESSON 4.5 – **SLOPE** AND SIMILAR TRIANGLES Name: _____

Learning Goal: I can use similar triangles to show that any points on the same line have the same **slope**. **Meta de Aprendizaje**: Puedo usar triángulos semejantes para demostrar que ningún punto de la misma línea tienen la misma **pendiente**.	**Language Goal:** I can read a graph of a line and describe how any two points on the line will have the same **slope**. **Lenguaje Objetivo**: Puedo leer un gráfico de una línea y describir cómo dos puntos cualesquiera de la línea tendrán la misma **pendiente**.

1.



What is the ***slope*** from Point A to Point B?

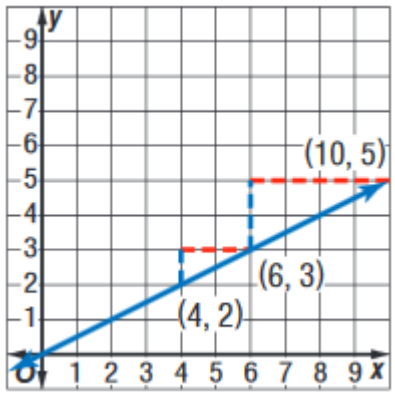
m = _____

What is the ***slope*** from Point B to Point C?

m = _____

Circle: Same ***Slope***
or
Different ***Slope***?

2.



What is the ***slope*** of the little triangle?

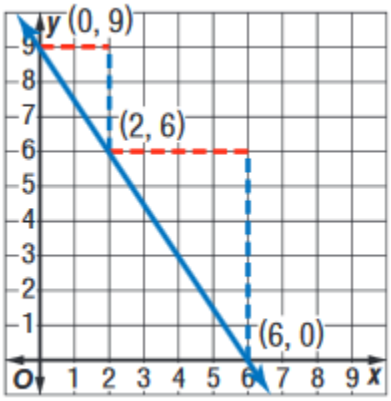
m = _____

What is the ***slope*** of the big triangle?

m = _____

Circle: Same ***Slope***
or
Different ***Slope***?

3.



What is the ***slope*** of the little triangle?

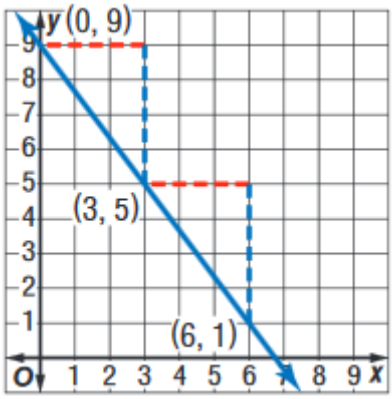
m = _____

What is the ***slope*** of the big triangle?

m = _____

Circle: Same ***Slope***
or
Different ***Slope***?

4.



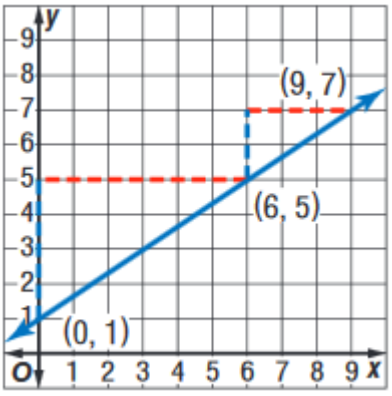
What is the ***slope*** of the little triangle?

m = _____

What is the ***slope*** of the big triangle?

m = _____

5.



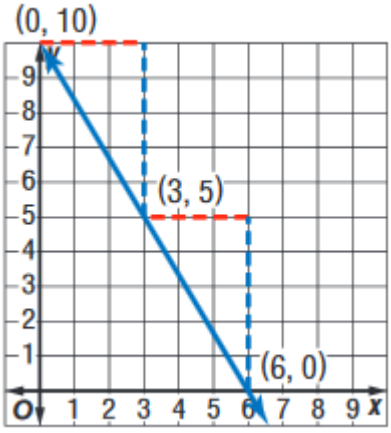
What is the ***slope*** of the little triangle?

m = _____

What is the ***slope*** of the big triangle?

m = _____

6.



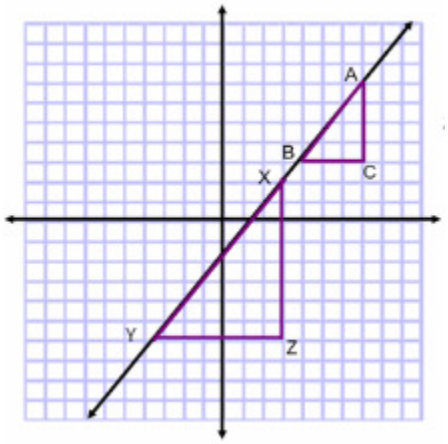
What is the ***slope*** of the little triangle?

m = _____

What is the ***slope*** of the big triangle?

m = _____

7.



What is the ***slope*** of the little triangle?

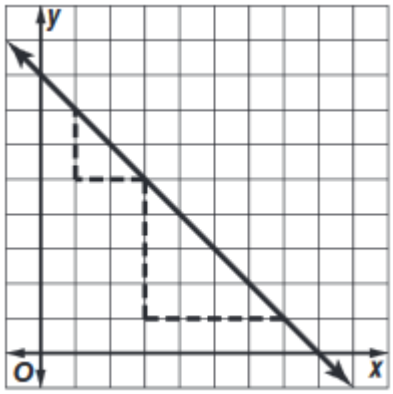
m = _____

What is the ***slope*** of the big triangle?

m = _____

Circle: Same ***Slope***
or
Different ***Slope***?

8.



What is the ***slope*** of the little triangle?

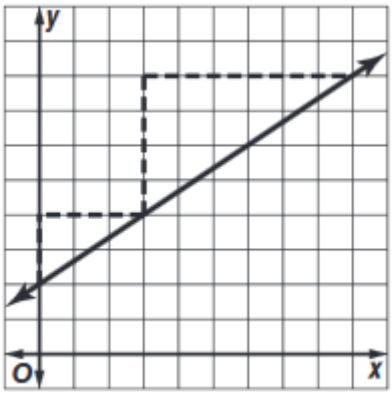
m = _____

What is the ***slope*** of the big triangle?

m = _____

Circle: Same ***Slope***
or
Different ***Slope***?

9.



What is the ***slope*** of the little triangle?

m = _____

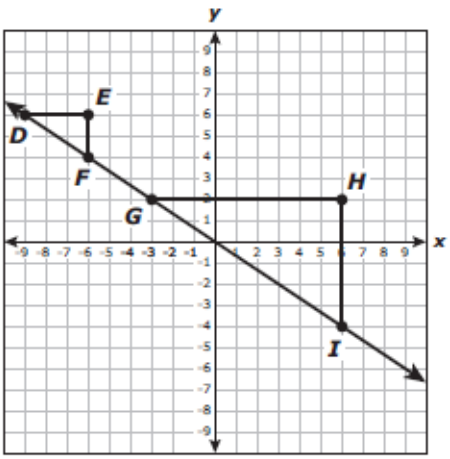
What is the ***slope*** of the big triangle?

m = _____

Circle: Same ***Slope***
or
Different ***Slope***?

So try to answer this old STAAR question!

Triangle *DEF* and triangle *GHI* are similar right triangles.



Based on this information, which statement is true?

A The relationship between the slope of the hypotenuse of triangle *DEF* and the slope of the hypotenuse of triangle *GHI* cannot be determined.

B The slope of the hypotenuse of triangle *DEF* is greater than the slope of the hypotenuse of triangle *GHI*.

C The slope of the hypotenuse of triangle *DEF* is less than the slope of the hypotenuse of triangle *GHI*.

D The slope of the hypotenuse of triangle *DEF* is equal to the slope of the hypotenuse of triangle *GHI*.