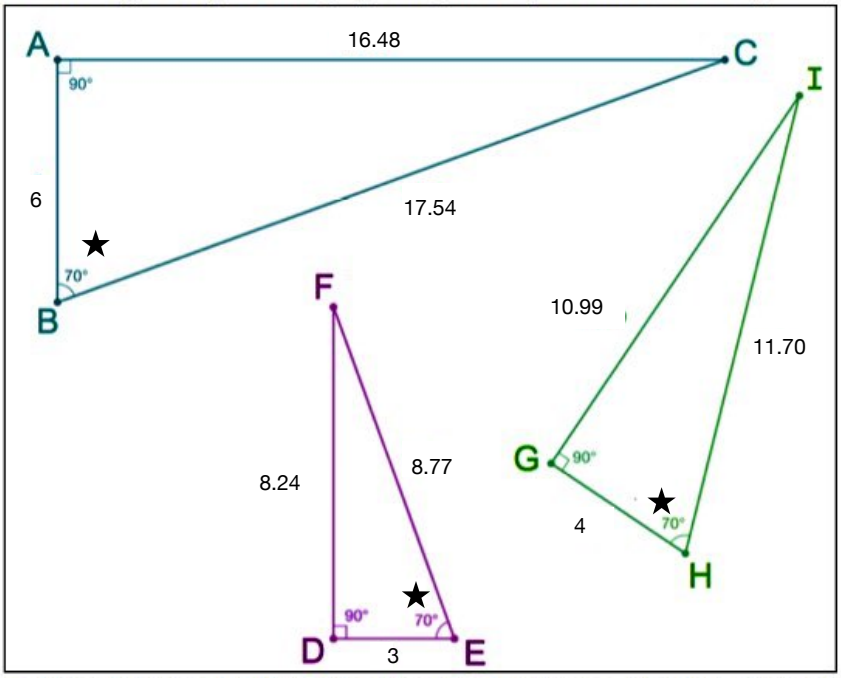
1. Compare the three triangles in the box below. Are the three triangles congruent? Are they similar? Explain how you know.

2. Label the sides of each triangle as hypotenuse, opposite, and adjacent to the 70° angle. ★



3. Fill in the following table with the ratios from the sides of each triangle. Round the divided ratios to nearest ten-thousandth (4 places after the decimal).

Triangle ABC	$\frac{opposite}{hypotenuse} =$	$\frac{adjacent}{hypotenuse} =$	$\frac{opposite}{adjacent} =$
Triangle DEF	$\frac{opposite}{hypotenuse} =$	$\frac{adjacent}{hypotenuse} =$	$\frac{opposite}{adjacent} =$
Triangle GHI	$\frac{opposite}{hypotenuse} =$	$\frac{adjacent}{hypotenuse} =$	$\frac{opposite}{adjacent} =$

4. What do you notice about each column?

5. Make sure your yellow calculator is in degree mode (MODE -> Degree).
Find the following values. Round to the nearest ten-thousandth.

$\sin 70° =$ _____ $\cos 70° =$ _____ $\tan 70° =$ _____

6. Did your findings from the table match up to the calculator values? Explain.

Summarize you findings:

_____

_____