Exploring Trigonometric Ratios

1. In the table below, calculate the ratio $\frac{leg\ opposite\ Angle\ A}{hypotenuse}$, which is $\frac{ED}{AD}$. Do this 3 times, moving point E to change the size of the triangle for the 2^{nd} and 3^{rd} trials

Measure of Angle	leg opposite Angle A	leg opposite Angle A	leg opposite Angle A	
A	hypotenuse (trial one)	hypotenuse	hypotenuse	
	(criai one)	(trial 2)	(trial 3)	
10				
40				
70				

ompare the values in the table you just completed to a table of trig ratios. Do your values for	
g opposite Angle A	
g opposite Angle A match the values in one of the columns? Which one?	
record your response in the GeoGebra activity)	

2. What did you observe about the multiple trials using the same angle? (record your response in the

GeoGebra activity)

3. In the table below, calculate the ratio $\frac{leg\ adjacent\ to\ Angle\ A}{hypotenuse}$, which is $\frac{AE}{AD}$. Do this 3 times, moving point E to change the size of the triangle for the 2^{nd} and 3^{rd} trials.

Measure of Angle A	leg adjacent to Angle A	leg adjacent to Angle A	leg adjacent to Angle A
	hypotenuse	hypotenuse	hypotenuse
	(trial one)	(trial 2)	(trial 3)
20			
50			
80			

Compare the values in the table you just completed to a table of trig ratios. Do your values for	
deg adjacent to Angle A match the values in one of the columns? Which one?	
hypotenuse	
(record your response in the GeoGebra activity)	

4. What did you observe about the multiple trials using the same angle? (record your response in the GeoGebra activity)
