Looking at the ratios in similar triangles

1. In GSP create and measure and angle.

2. Make a right triangle by adding an opposite side and label the three points making the triangle.

3. Measure the lengths of the three sides of the triangle (Adjacent or X; Opposite or Y, and Hypotenuse or R).

4. Look at the 6 possible ratios of the sides.

5. Tabulate the data for lengths and ratios.

6. Add another Opposite side to create a smaller right triangle and repeat the steps above.

7. Create a third right triangle by adding another Opposite side and follow the steps as before.

8. Calculate the Sine, Cosine, Tangent, Cotangent, Secant, and Cosecant.

9. Match the three ratios with each calculation.

10. Create your Name, Date, Period and Assignment Name as a Text Box and then Print and Email the file. Fit to one page as is possible.

