

PROJECT #1  
Euclid's Proposition 1 – An Equilateral triangle

- Question 1: The triangle will stay equilateral no matter which vertex you drag. Dragging A or B will scale the triangle. Dragging C will translate it.
- Question 2:  $\overline{AB}$  is a radius of both circles, so the circles are congruent. Each of the three sides is a radius of one circle or the other, so all three sides are congruent. Therefore, the triangle is equilateral.
- Question 3 The angles in an equilateral triangle are all congruent. Each angle measures  $60^\circ$ .