Explore Congruent Triangles Lab Activity Due Date: September 22, 2014

Geometry software can help you explore congruent triangles

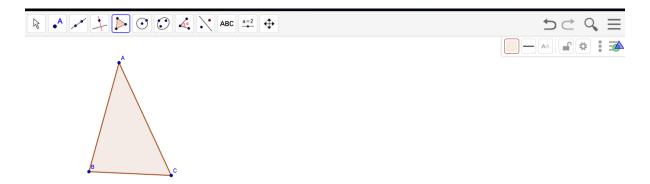
General Instruction: Complete the constructions and answer the questions in a text box using the software GeoGebra. Save the completed lab activity to your own storage device, name the file according to the following format: Period#-lastname-firstname. For example for Sally Smith's file should be called "Period1-smith-sally". Submit your completed lab activity via email at wramos@vvuhsd.org

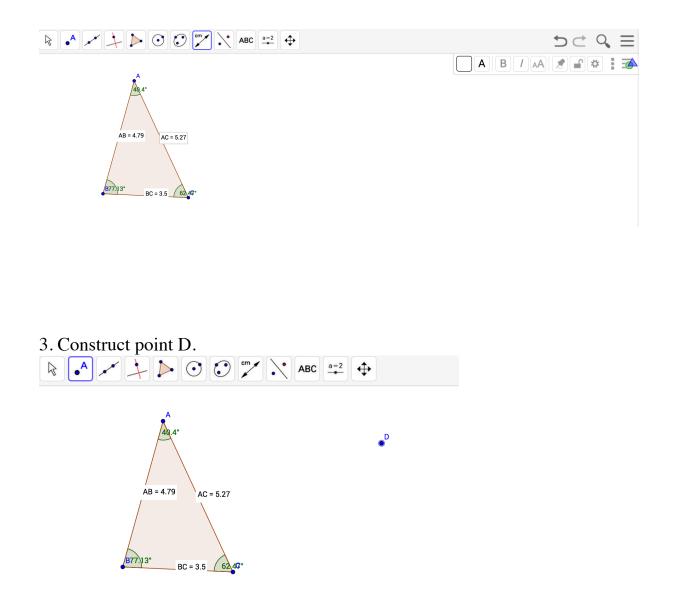
Questions to respond at the end: 1. Manipulate points A, B, C. How do points D, E, F respond?

2. Are the two triangles congruent? How do you know?

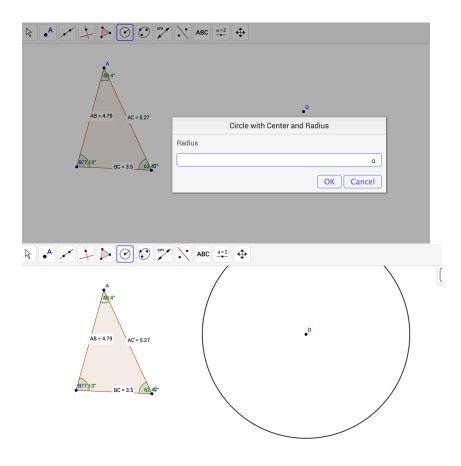
Constructions 1. Hide axes.

2. Construct Δ ABC and measure all sides and interior angles.

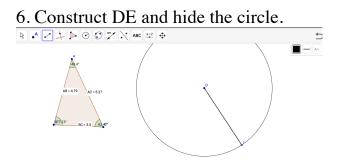




4. Construct a circle with center at D and radius equal to the length of line AB.

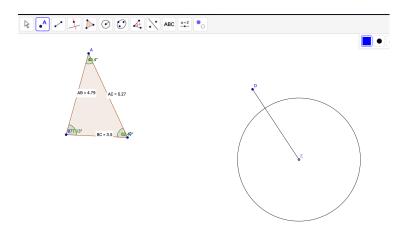


5. Construct a point on the circle and label it E.

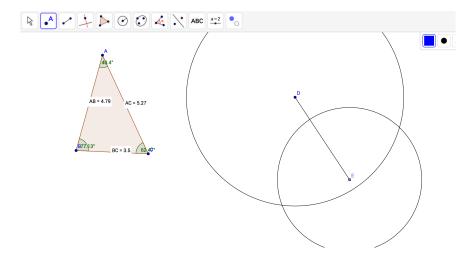




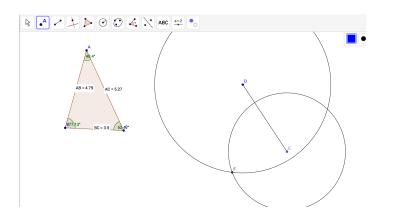
7. Construct a circle D with center at E and radius equal to BC.



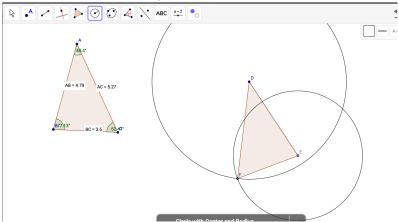
8. Construct a circle e with center at D and radius equal to AC.



9. Construct point F at a point of intersection of circles d and e (there are two possible locations for the point F).







11. Measure all sides and interior angles of ΔDEF .

