Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Unit 9 – HW – Proofs with Similar Triangles**

Monica

Geometry Period:\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Outcome** | **Rating** |
| #1: Argues with different types of reasoning in order to prove or disprove a statement | NY MS ES |
| #9: Discerns and applies concepts of similarity in two triangles or polygons | NY MS ES |
| #13: Identifies parts and properties of circles and can precisely determine measurements of area, circumference, arc length, angles, tangents and secants | NY MS ES |

Directions: Complete the proofs below. You may use a paragraph proof or a two-column proof.

 1) The diagram below shows , with , , and . Prove that  is similar to .



 2) In the accompanying diagram of circle *O*, diameter ** is drawn, tangent ** is drawn to the circle at *B*, *E* is a point on the circle, and *.*

Prove: 

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