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

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**TASK CARD #1: TRIANGLE CONGRUENCE**

 In the diagram of  and  below, , , and .



a) Prove that .

b) Describe a sequence of rigid motions that will map  onto :

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**TASK CARD #2: TRIANGLE SIMILARITY**

 In the accompanying diagram, ** and  and ** intersect at point *T*.

**

 Prove that: $\frac{WT}{TH}=\frac{AT}{CT}$

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**TASK CARD #3: QUADRILATERAL PROOF**

 Given: *JKLM* is a parallelogram.

 

 



Prove: *JKLM* is a rhombus.

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

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**TASK CARD #4: CIRCLE PROOF**

 Given: Chords  and  of circle *O* intersect at *E*, an interior point of circle *O*; chords  and  are drawn.



Prove: 