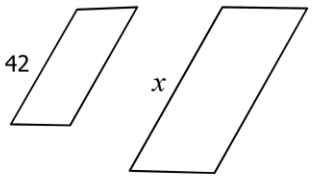
Name: _____

Day 3 HW – Unit 3 Review – Similar and Congruent Figures

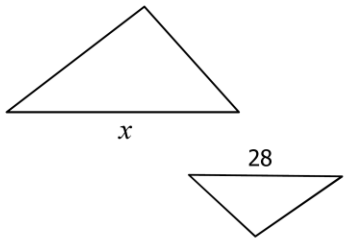
Part 1:

Using Similar Figures to Solve for Missing Measures.

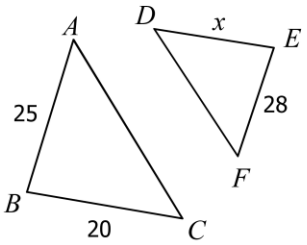
4. If the figures below are similar with a scale factor of 2:3, find the value of x.



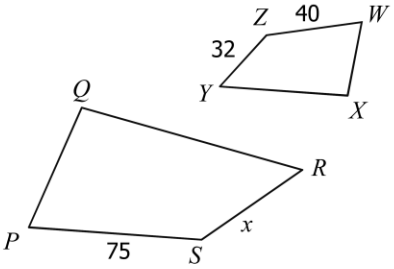
5. If the figures below are similar with a scale factor of 6:5, find the value of x.



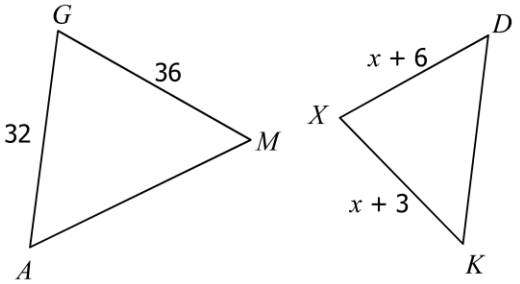
6. If $\Delta ABC \sim \Delta DEF$, find the value of x.



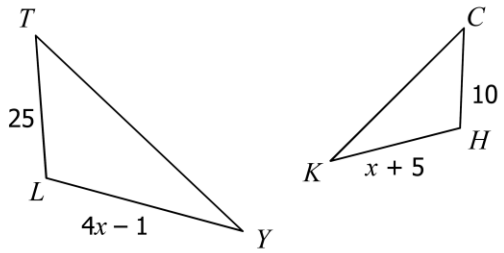
7. If $PQRS \sim WXYZ$, find the value of x.



8. If $\Delta AGM \sim \Delta KXD$, find the value of x.



9. If $\Delta TLY \sim \Delta CHK$, find the value of x.



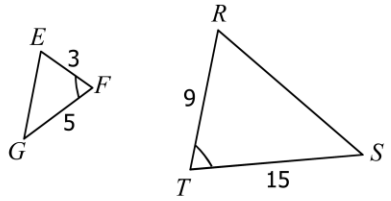
Name: _____

Day 3 HW – Unit 3 Review – Similar and Congruent Figures

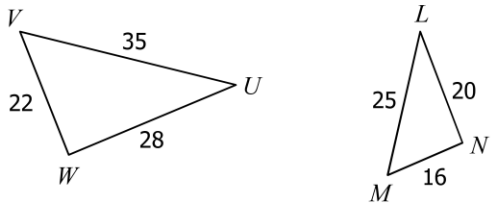
Part 2: **ARE WE SIMILAR ?**

Directions: Determine whether the triangles are similar. If similar, state how (AA~, SSS~, or SAS~), and write a similarity statement.

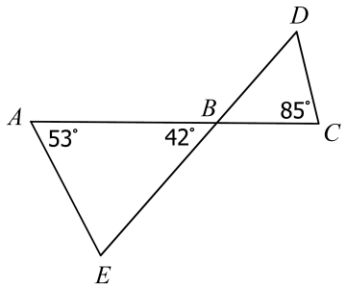
1



2



3



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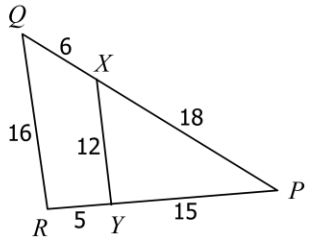
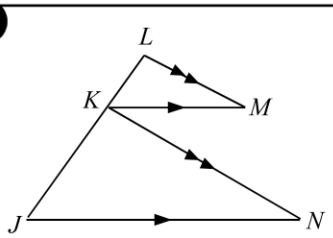


5



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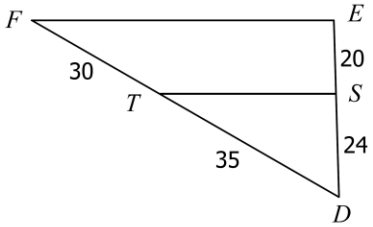
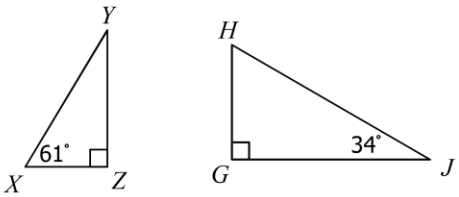
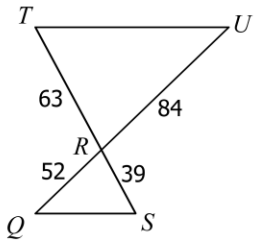


7



8



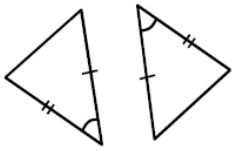
Name: _____

Day 3 HW – Unit 3 Review – Similar and Congruent Figures

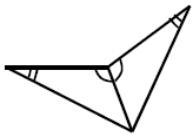
Part 3:

Determine if the triangles can be proved congruent, if possible, by SSS, SAS, ASA, AAS, or HL. Write your answer on the blank. If not congruent, write "not congruent."

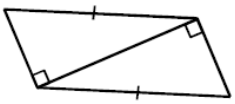
1. _____



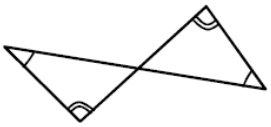
2. _____



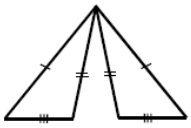
3. _____



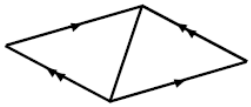
4. _____



5. _____

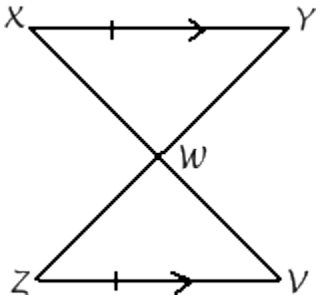


6. _____



Write a flow proof for each.

7. Given: $\overline{XY} \parallel \overline{ZV}, \overline{XY} \cong \overline{ZV}$
   Prove: $\Delta XYW \cong \Delta VZW$



8. Given: M is midpoint of $\overline{XY}$, $\overline{XA} \cong \overline{YA}$
   Prove: $\Delta XAM \cong \Delta YAM$