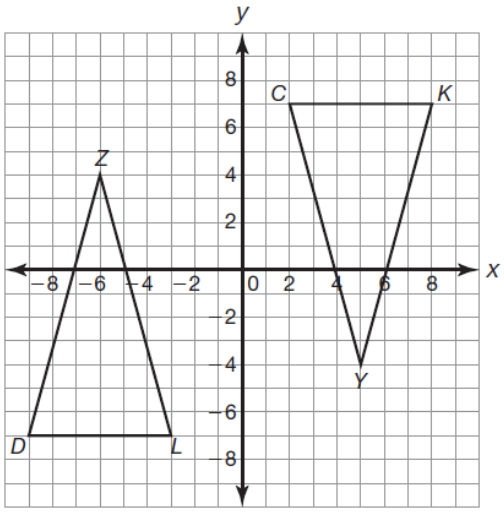
 Name: _____

7.5 & 7.6 – ASA & AAS Congruence Theorems

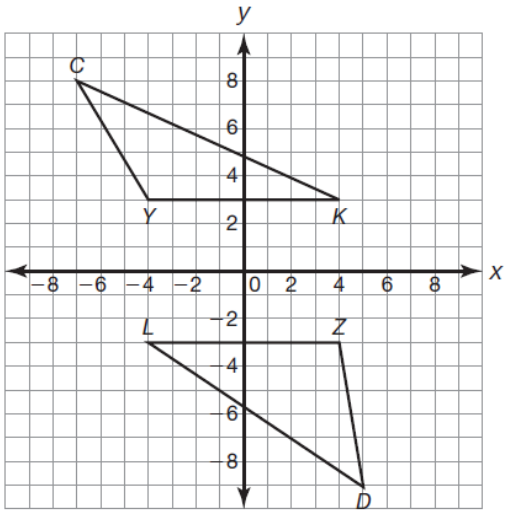
Past due on _____ *Period* _____

Determine whether each pair of given triangles are congruent by ASA or AAS. Use the Distance Formula and a protractor when necessary.

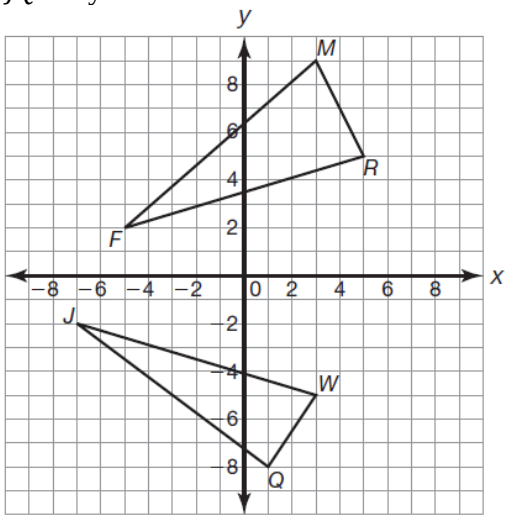
1. Determine whether $\triangle CKY$ is congruent to $\triangle DLZ$ by ASA.



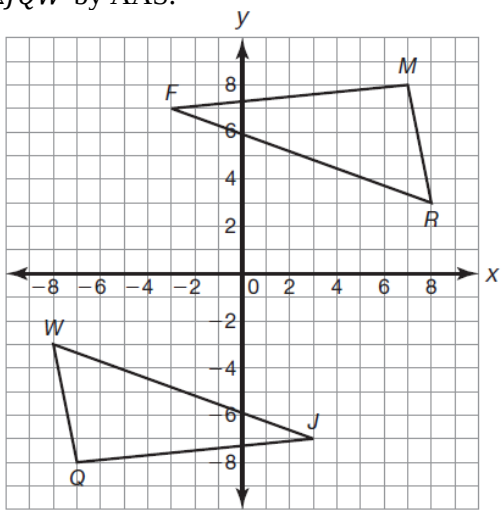
2. Determine whether $\triangle CKY$ is congruent to $\triangle DLZ$ by AAS.



3. Determine whether $\triangle FMR$ is congruent to $\triangle JQW$ by ASA.



4. Determine whether $\triangle FMR$ is congruent to $\triangle JQW$ by AAS.



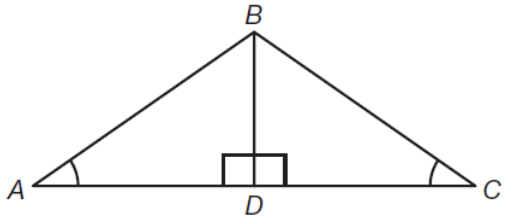
Determine the angle measure or side measure that is needed in order to prove that each set of triangles are congruent by AAS.

5. In $\triangle ANT, m\angle A = 30°, m\angle N = 60°, \& NT = 5.$ In $\triangle BUG, m\angle U = 60° \& UG = 5.$

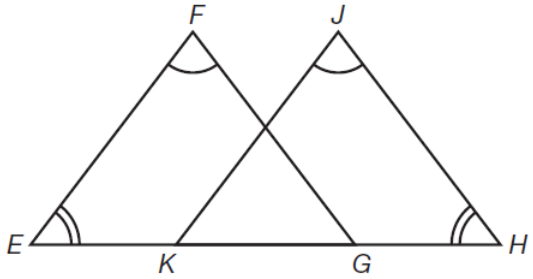
6. In $\triangle BCD, m\angle B = 25° \& m\angle D = 105°.$ In $\triangle RST, RS = 12, m\angle R = 25°, \& m\angle T = 105°.$

Determine whether there is enough information to prove that each pair of triangles are congruent by ASA or AAS. Explain your reasoning.

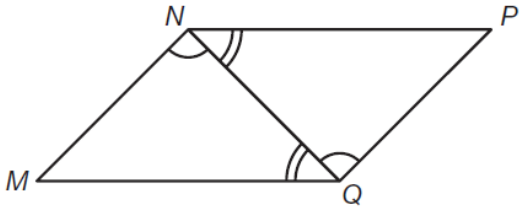
7. $\triangle ABD \cong \triangle CBD$



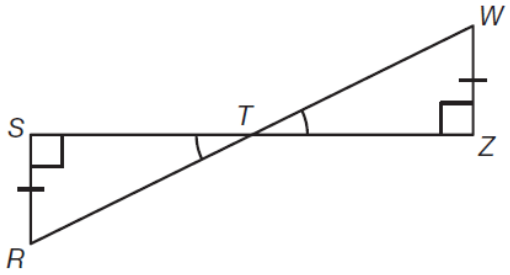
8. $\triangle EFG \cong \triangle HJK$



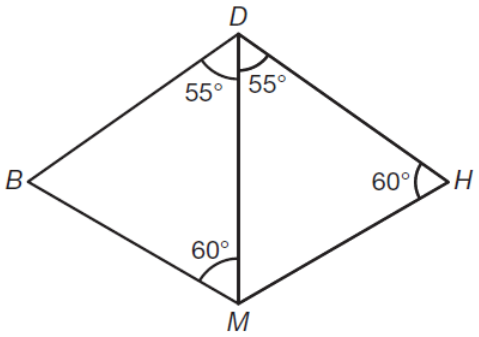
9. $\triangle MNQ \cong \triangle PQN$



10. $\triangle RST \cong \triangle WZT$



11. $\triangle BDM \cong \triangle MDH$



12. $\triangle FGH \cong \triangle JHG$