Date_

3.2 – Properties of Parallel Lines

Identify all the numbered angles that are congruent to the given angle. Justify your answers.

Example: $\angle 5 - CA$, $\angle 7 - AEA$, etc. (If more than one reason, please state.)







4)

Find $m \angle 1$ and $m \angle 2$. Justify each answer.









Find the value of *x*. Then find the measure of each labeled angle. Show all algebraic work.





12) One pair of parallel lines intersect a second pair of parallel lines. One of the angles of intersection has a measure of 60. How can you determine the measure of the four interior angles? Draw a sketch to support your answer.

13) Analyze the solutions below. Which solution for the figure at the right is incorrect? Explain.





 $c = _$ $f = _$ $i = _$ $m = _$ $q = _$