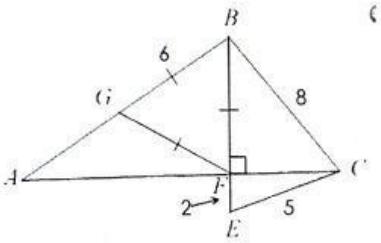
Unit 4 Test Geometry: Congruent Triangles
Classifying and Solving for Sides/Angles

Name: _____ Date: _____ Pd: _____

**Directions:** If $G$ is the midpoint of $\overline{AB}$, classify each triangle by its angles and sides.




1. $\Delta CFE$: _____, _____

2. $\Delta BEC$: _____, _____

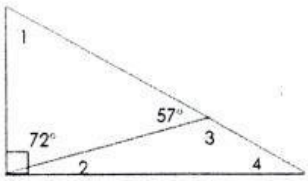
3. $\Delta BFG$: _____, _____

4. $\Delta GAF$: _____, _____

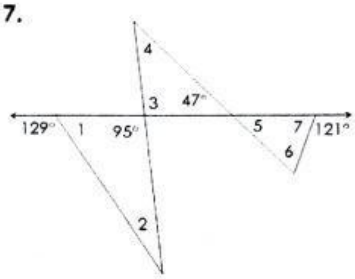
**Find all missing angles for #6-7**

6.

$m\angle 1 =$ _____
$m\angle 2 =$ _____
$m\angle 3 =$ _____
$m\angle 4 =$ _____

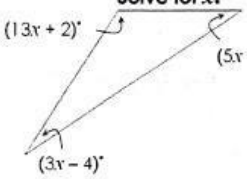



7.



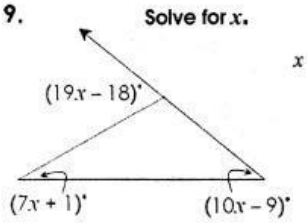

$m\angle 1 =$ _____
$m\angle 2 =$ _____
$m\angle 3 =$ _____
$m\angle 4 =$ _____
$m\angle 5 =$ _____
$m\angle 6 =$ _____
$m\angle 7 =$ _____

8. **Solve for $x$.**




$x =$ _____

9. **Solve for $x$.**




$x =$ _____

***Extra Credit***

**5.** If $W(-10, 4)$, $X(-3, -1)$, and $Y(-5, 11)$ classify $\Delta WXY$ by its sides. Show all work to justify your answers.

$\Delta WXY$ is _____

$WX =$ _____

$XY =$ _____

$WY =$ _____

LIVEWORKSHEETS