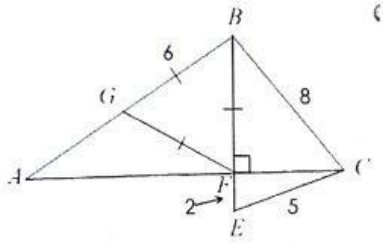
Unit 4 Test Geometry: Congruent Triangles
Classifying and Solving for Sides/Angles

Name: _____ Date: _____ Pd: _____

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



1. ΔCFE: _____, _____

2. ΔBEC: _____, _____

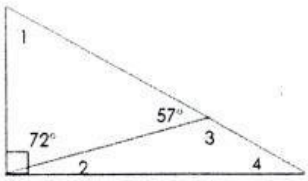
3. ΔBFG: _____, _____

4. ΔGAF: _____, _____

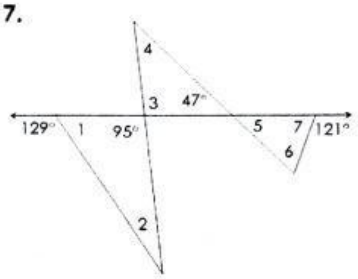
Find all missing angles for #6-7

6.

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

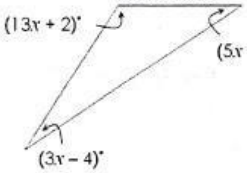


7.



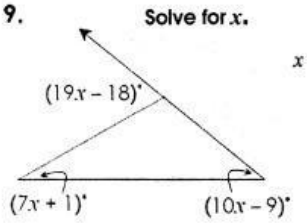
$m\angle 1 =$ _____
$m\angle 2 =$ _____
$m\angle 3 =$ _____
$m\angle 4 =$ _____
$m\angle 5 =$ _____
$m\angle 6 =$ _____
$m\angle 7 =$ _____

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 ΔWXY by its sides. Show all work to justify your answers.

ΔWXY is _____

$WX =$ _____
$XY =$ _____
$WY =$ _____

LIVEWORKSHEETS