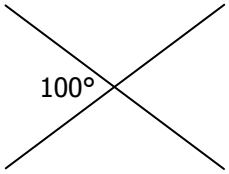
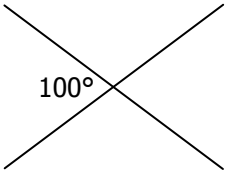
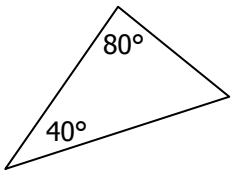
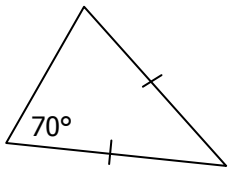
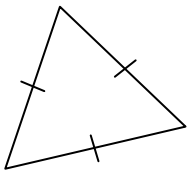
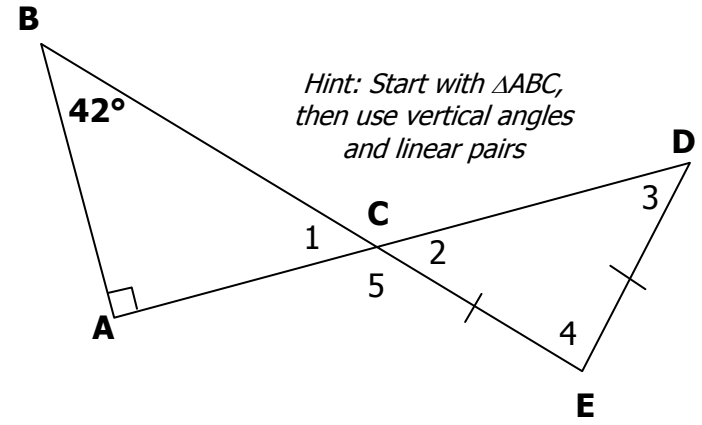
Accel Algebra
Triangle Puzzles

Name _____

Period _____ Date _____

A few <u>VERY IMPORTANT</u> things to remember:

Vertical Angles	Linear Pair	Angles of a Δ	Isosceles Δs	Equilateral Δs
				

1. 

m∠1 = _____

m∠2 = _____

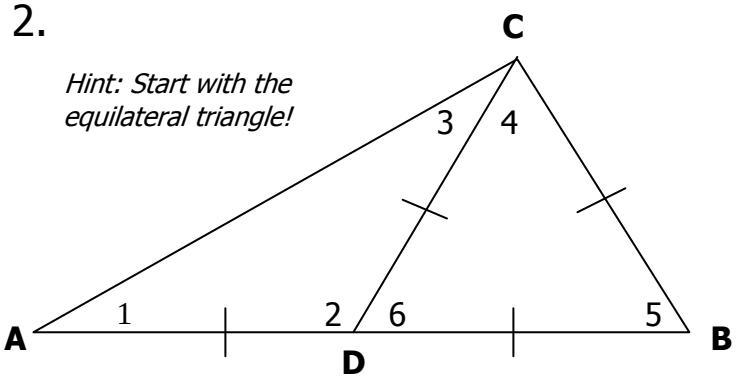
m∠3 = _____

m∠4 = _____

m∠5 = _____

Classify ΔABC in two ways: _____

Classify ΔCDE in two ways: _____

2. 

m∠1 = _____

m∠2 = _____

m∠3 = _____

m∠4 = _____

m∠5 = _____

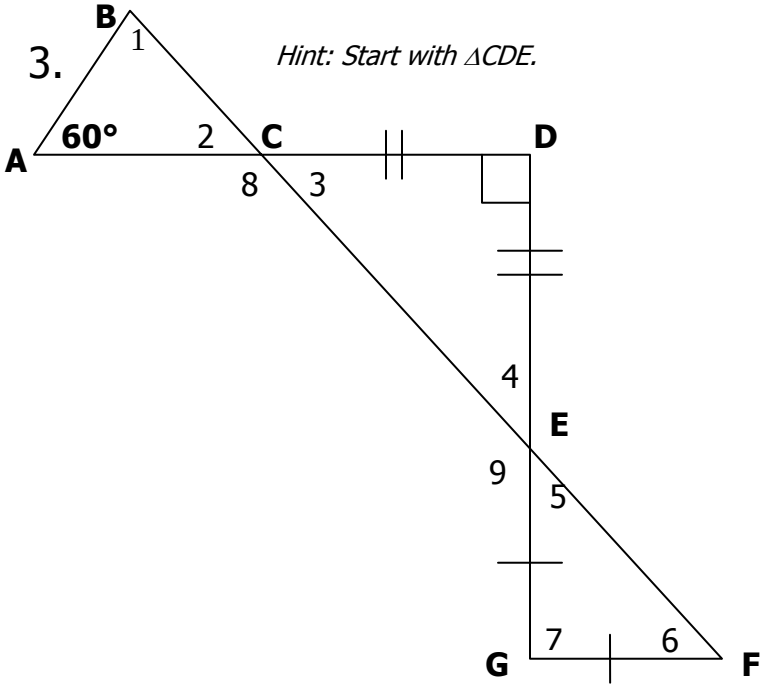
m∠6 = _____

Classify ΔACD in two ways: _____

Classify ΔBCD in two ways: _____

Classify ΔABC in two ways: _____

3. *Hint: Start with ΔCDE.*



m∠1 = _____

m∠2 = _____

m∠3 = _____

m∠4 = _____

m∠5 = _____

m∠6 = _____

m∠7 = _____

m∠8 = _____

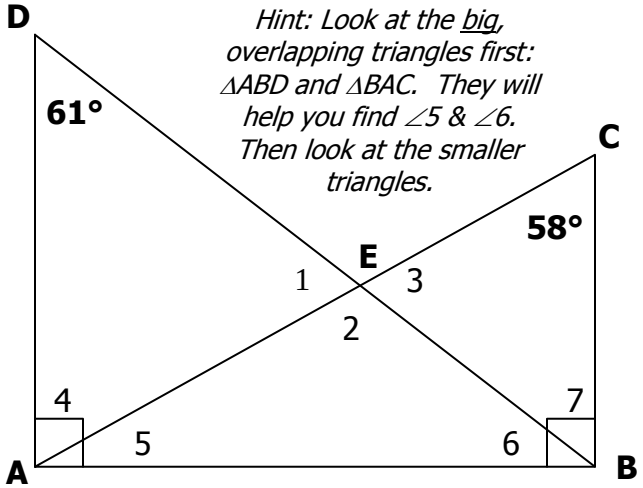
m∠9 = _____

Classify ΔABC in two ways: _____

Classify ΔCDE in two ways: _____

Classify ΔEFG in two ways: _____

4. *Hint: Look at the <u>big</u>, overlapping triangles first: ΔABD and ΔBAC. They will help you find ∠5 & ∠6. Then look at the smaller triangles.*



m∠1 = _____

m∠2 = _____

m∠3 = _____

m∠4 = _____

m∠5 = _____

m∠6 = _____

m∠7 = _____

Classify ΔABC in two ways: _____

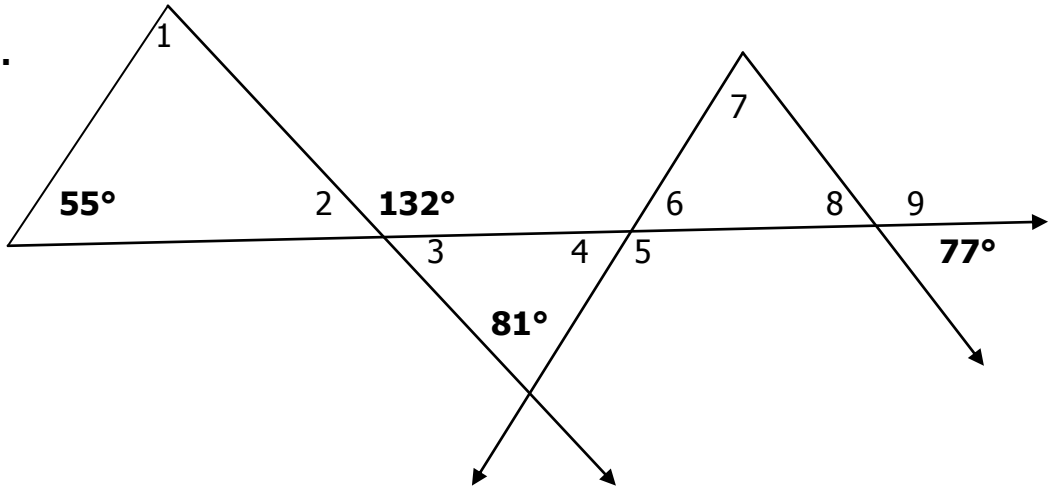
Classify ΔABD in two ways: _____

Classify ΔABE in two ways: _____

Classify ΔBCE in two ways: _____

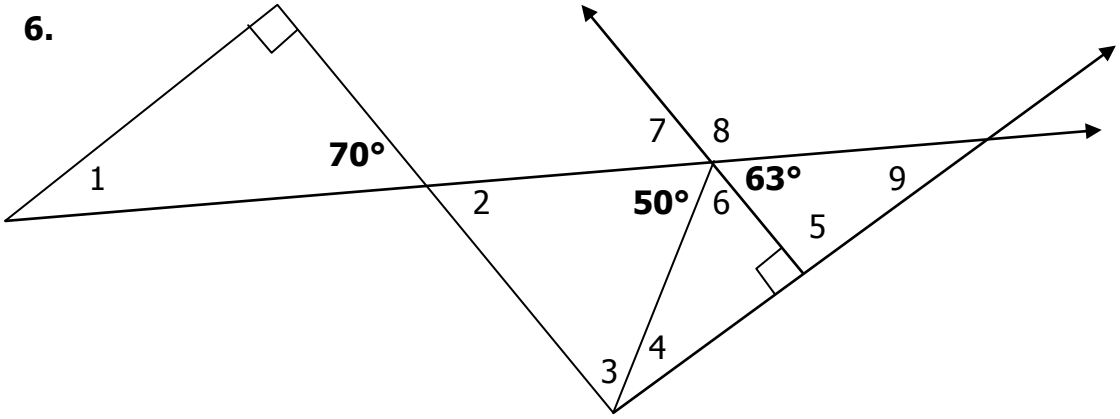
Classify ΔADE in two ways: _____

5.



m∠1 = _____
m∠2 = _____
m∠3 = _____
m∠4 = _____
m∠5 = _____
m∠6 = _____
m∠7 = _____
m∠8 = _____
m∠9 = _____

6.



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