**H. Geometry - Bellwork #46 Date: \_\_\_\_\_**

For 1 – 2, find the value measure of the variables.



3. Use the information given in the diagram. Tell **why** each statement is true.

a. $AC≅AC$ \_\_\_\_\_\_\_\_\_\_

b. $AD≅BC$ \_\_\_\_\_\_\_\_\_\_

4. The two triangles are congruent. Find the missing side lengths and the missing angle measures.

 *s* = \_\_\_\_\_\_\_\_\_\_ *v* = \_\_\_\_\_\_\_\_\_\_

*t =* \_\_\_\_\_\_\_\_\_\_ *u* = \_\_\_\_\_\_\_\_\_\_

*w* = \_\_\_\_\_\_\_\_\_\_

5. Given Δ*QRS* ≅ Δ*TUV*, draw the two triangles, label, and find the measure of the given angles and the lengths of the given sides.

a. QS = 3*v* + 1; TV = 5*v* – 9

b. $m∠R$ = 4*n* + 4; $m∠U$ = 5*n* – 4

6. Fill in the following congruence statement.

