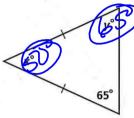
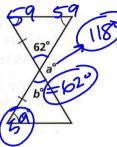
For 1-2, find the value measure of the variables.

1.





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





$$s = \bigcirc Y$$

$$t = 5$$

$$u = \boxed{90}$$

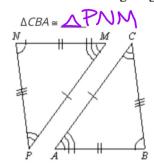
$$w = 10.9$$

- a. AC ≅ AC Pefl. Prop.

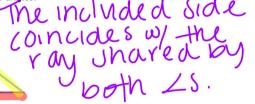


5. Given
$$\triangle QRS \cong \triangle TUV$$
, draw the two triangles, label, and find the measure of the given angles and the lengths of the given sizes.

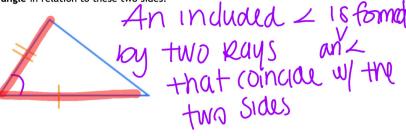
6. Fill in the following congruence statement.



7. On the diagram, two angles are marked. Mark the side that is considered the **included side** in relation to these two angles.



6. On the diagram, two sides are marked. Mark the angle that is considered the **included angle** in relation to these two sides.

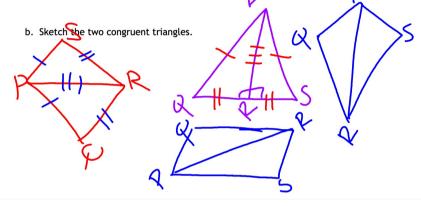


8. Put an "X" in the table to indicate which combinations of three pairs of congruent parts guarantee two triangles congruent.

	Proves congruence	Does not prove congruence
SSS		
AAA		X
SAS	X	
SSA		X
ASA	X,	
SAA	Υ	

9. **REINFORCE** Suppose $\triangle PQR \cong \triangle PSR$.

 $\frac{\overline{PQ} \cong \overline{PS}}{\overline{QR} \cong \overline{SR}} = \overline{PR} = \overline{PR}$



b. Add one set of tick marks to the diagram below to obtain a pattern in which the two triangles are congruent. Write out the congruence statement and indicate the congruence postulate you used.

low es PDJ ... PDJ

SAS :: ARIO = APA

10. REINFORCE

a. Given two triangles with corresponding angles and sides as marked congruent on this diagram, why is it not possible to conclude that the two triangles are congruent?

iangles are congruent?

These +W As have

Corresp \(\sigma \) & Sides marked

\(\sigma \) In the SSA pattern

which doesn't prove