Geometry

Name_____

Triangle Congruence

Complete each congruence statement by naming the corresponding angle or side.

1) $\triangle EFG \cong \triangle MNL$

$\angle F \cong ?$
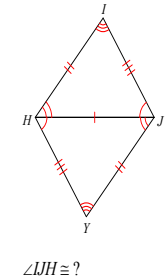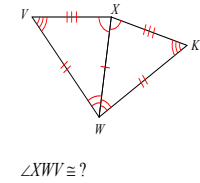
2) $\triangle CBA \cong \triangle WVU$

$\overline{CB} \cong ?$

3) $\triangle KLM \cong \triangle LKY$

$\overline{MK} \cong ?$

4) $\triangle JHI \cong \triangle HJY$

$\angle IJH \cong ?$

5) $\triangle XWV \cong \triangle XWK$

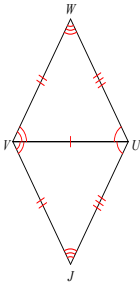
$\angle XWV \cong ?$

6) $\triangle RTS \cong \triangle GHI$
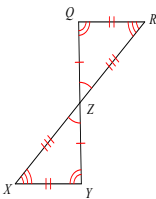

$\overline{SR} \cong ?$
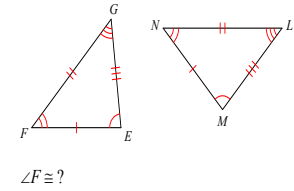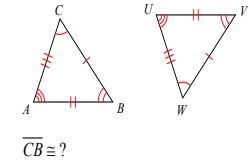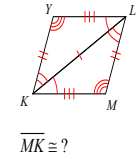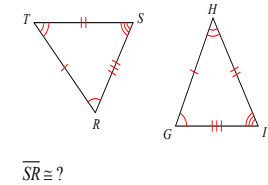
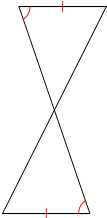**Write a statement that indicates that the triangles in each pair are congruent.**
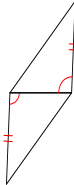
7)

8)

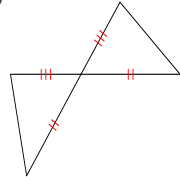**State if the two triangles are congruent. If they are, state how you know.**
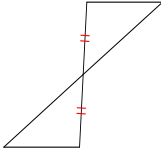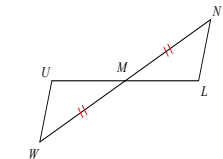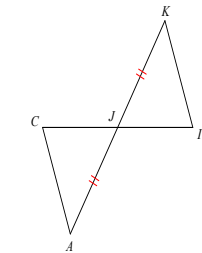
9)

10)

11)

12)

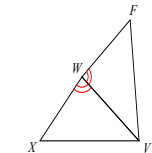**State what additional information is required in order to know that the triangles are congruent for the reason given.**

13) AAS

14) AAS
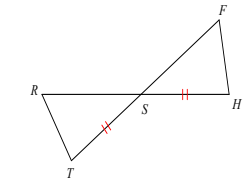

15) AAS
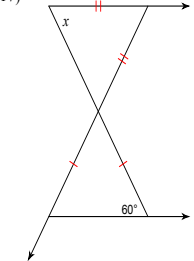

16) AAS

Find the value of x.

17)

18)

19)

20)

21) $m\angle 2 = x + 69$

22) $m\angle 2 = 8x - 8$