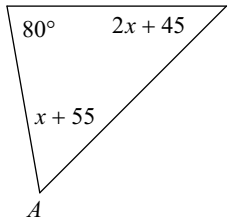
Geometry Name_____

Triangle Practice - MUST SHOW WORK

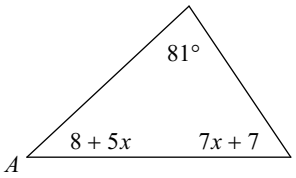
Date_____ Hour____

Find the measure of angle A.

1)

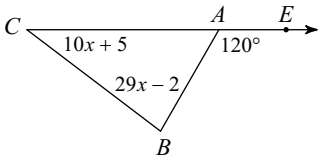


2)



Solve for *x*.

3)



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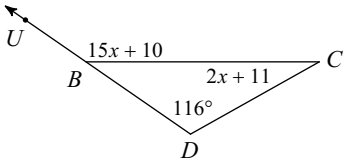
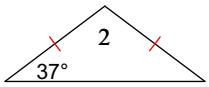
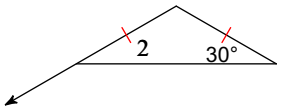


Find the value of *x*.

5) $m\angle 2 = 2 + 13x$



6) $m\angle 2 = x + 36$



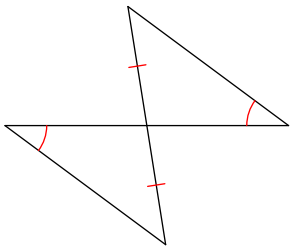
Two sides of a triangle have the following measures. Find the range of possible measures for the third side.

7) 8, 7

8) 11, 7

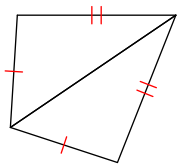
State if the two triangles are congruent. If they are, state how you know.

9)



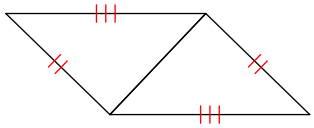
A) SAS B) ASA
C) SSS D) AAS

10)

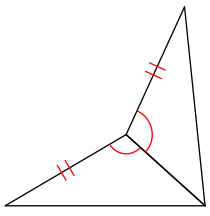


A) AAS B) SAS
C) SSS D) ASA

11)

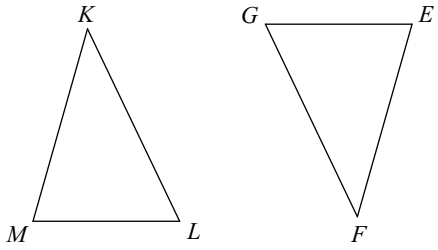


12)



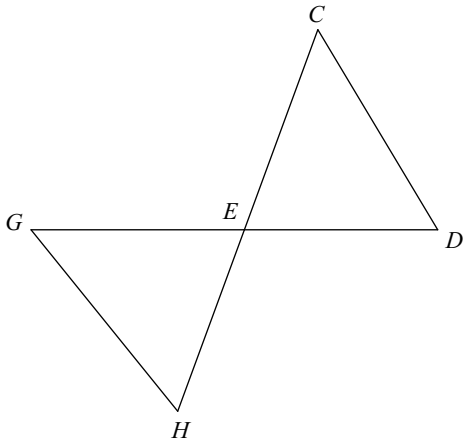
Complete each congruence statement by naming the corresponding angle or side.

13) $\triangle MKL \cong \triangle EFG$



$\angle L \cong ?$

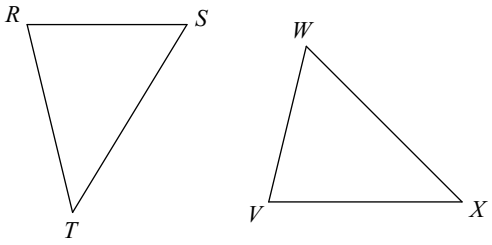
14) $\triangle ECD \cong \triangle EGH$



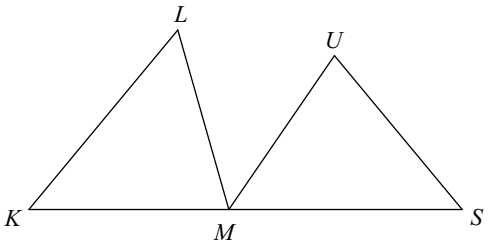
$\overline{CD} \cong ?$

Mark the angles and sides of each pair of triangles to indicate that they are congruent.

15) $\triangle RST \cong \triangle VWX$

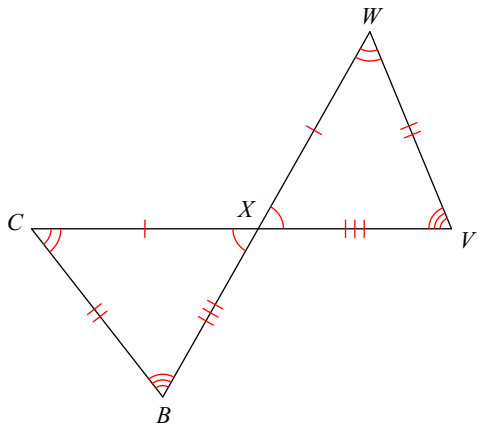


16) $\triangle KLM \cong \triangle SMU$

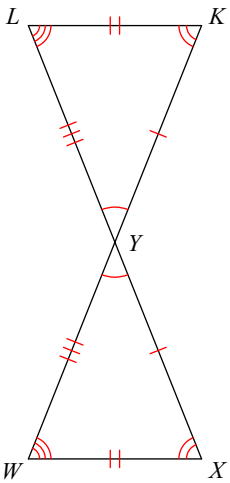


Write a statement that indicates that the triangles in each pair are congruent.

17)



18)



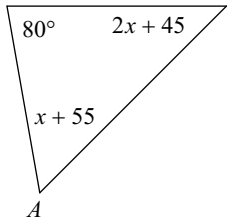
Geometry Name_____

Triangle Practice - MUST SHOW WORK

Date_____ Hour____

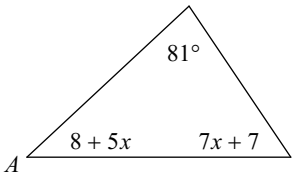
Find the measure of angle A.

1)



55°

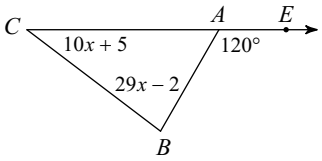
2)



43°

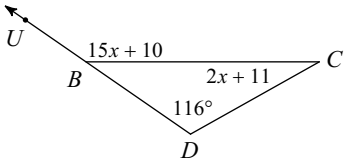
Solve for *x*.

3)



3

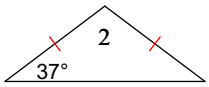
4)



9

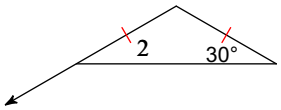
Find the value of *x*.

5) $m\angle 2 = 2 + 13x$



8

6) $m\angle 2 = x + 36$



–6

Two sides of a triangle have the following measures. Find the range of possible measures for the third side.

7) 8, 7

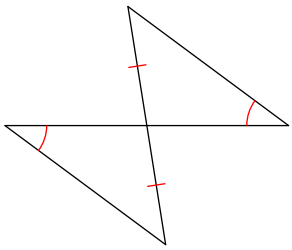
$1 < x < 15$

8) 11, 7

$4 < x < 18$

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

9)



A) SAS B) ASA
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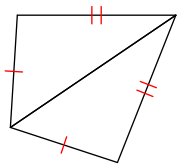

A) AAS B) SAS
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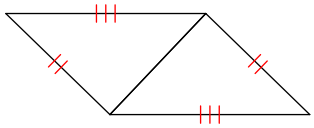
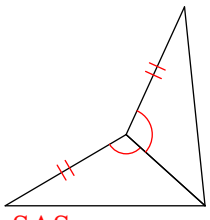


SSS

12)



SAS

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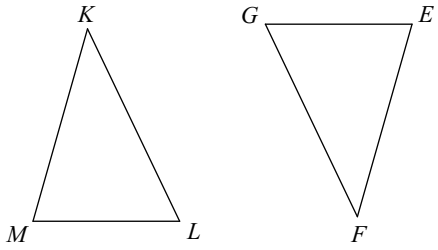

$\angle L \cong$?

$\angle G$

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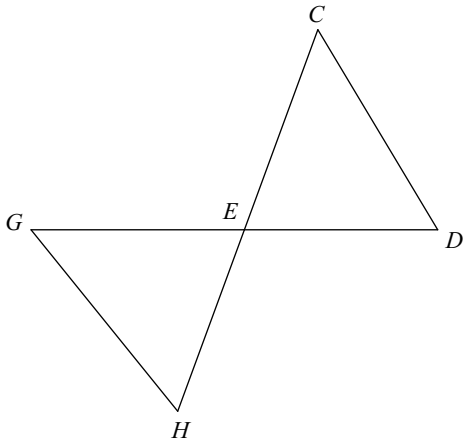

$\overline{CD} \cong$?

$\overline{GH}$

Mark the angles and sides of each pair of triangles to indicate that they are congruent.

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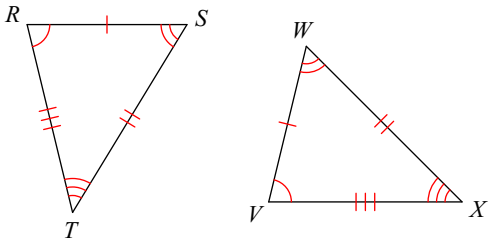

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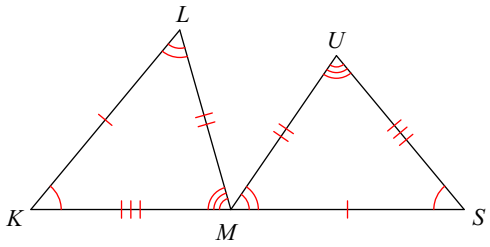

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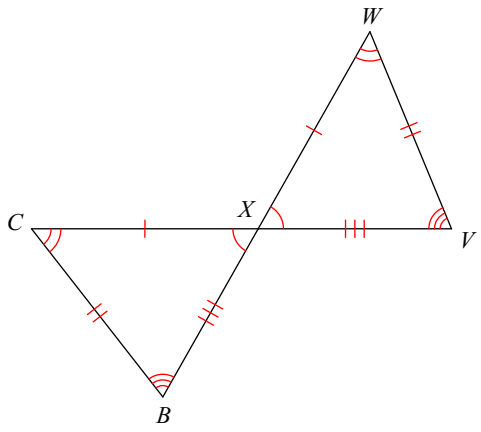
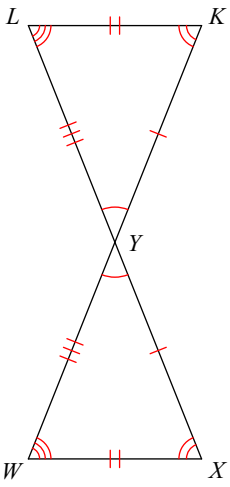


$\triangle XWV \cong \triangle XCB$

18)



$\triangle YXW \cong \triangle YKL$