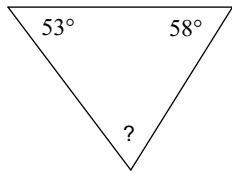


# Unit 2A Review

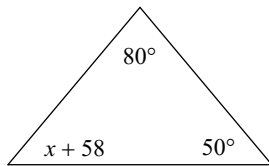
**Find the measure of each angle indicated.**

1)



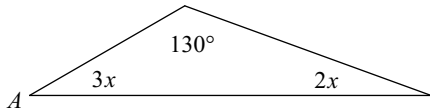
**Solve for  $x$ .**

2)



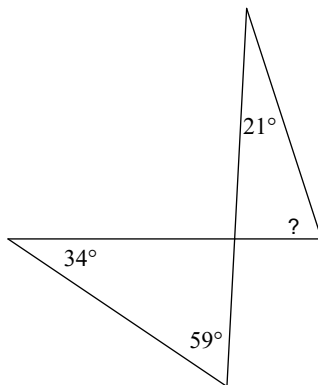
**Find the measure of angle A.**

3)



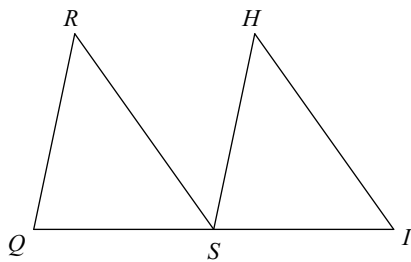
**Find the measure of each angle indicated.**

4)



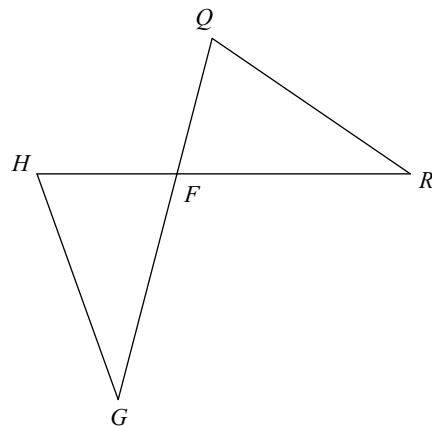
**Complete each congruence statement by naming the corresponding angle or side.**

5)  $\triangle QRS \cong \triangle SHI$



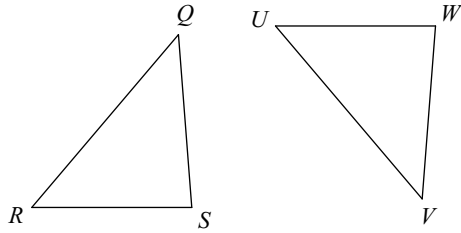
$\overline{RS} \cong ?$

6)  $\triangle FGH \cong \triangle FRQ$



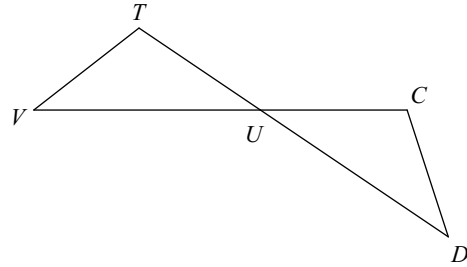
$\overline{HF} \cong ?$

7)  $\triangle RQS \cong \triangle UVW$



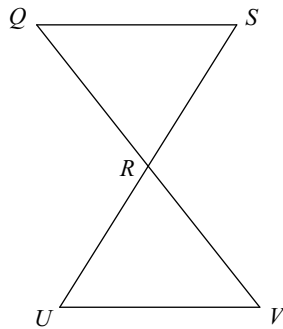
$\overline{SR} \cong ?$

8)  $\triangle UVT \cong \triangle UDC$



$\overline{VT} \cong ?$

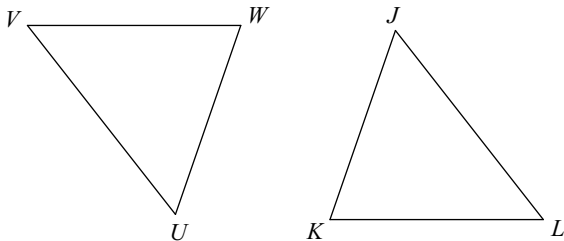
9)  $\triangle RQS \cong \triangle RVU$



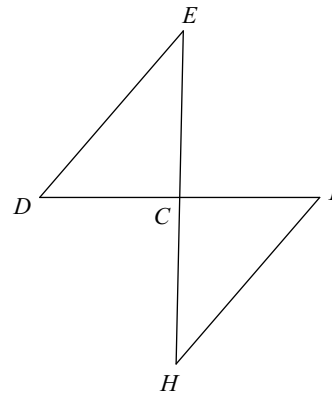
$\angle Q \cong ?$

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

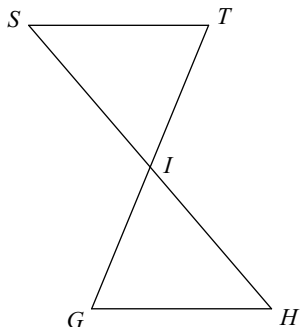
10)  $\triangle UVW \cong \triangle JLK$



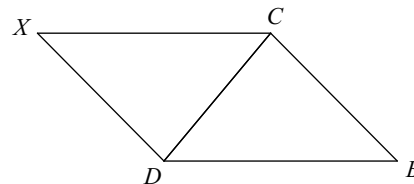
11)  $\triangle CDE \cong \triangle CIH$



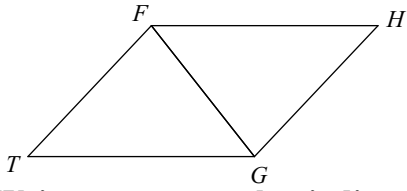
12)  $\triangle IHG \cong \triangle IST$



13)  $\triangle DCB \cong \triangle CDX$

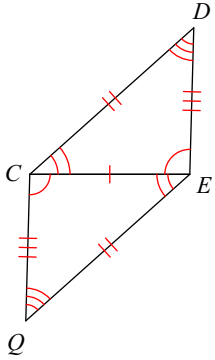


14)  $\triangle GFH \cong \triangle FGT$

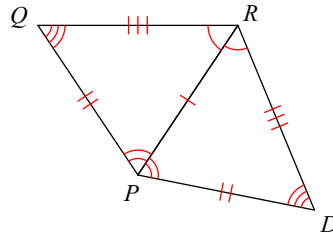


Write a statement that indicates that the triangles in each pair are congruent.

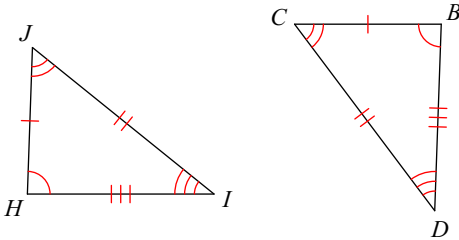
15)



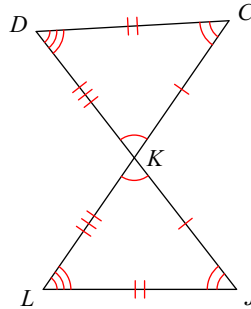
16)



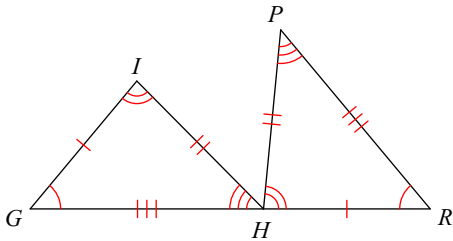
17)



18)

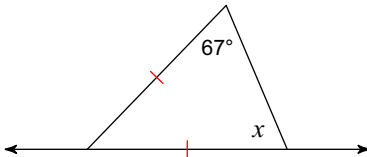


19)

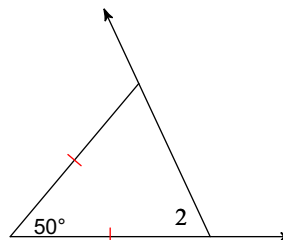


Find the value of  $x$ .

20)

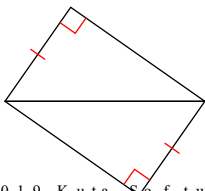


21)  $m\angle 2 = x + 72$

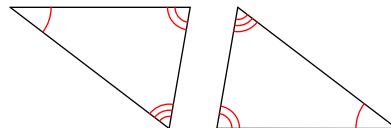


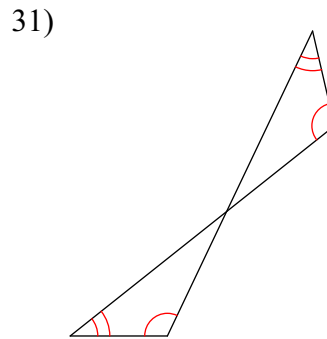
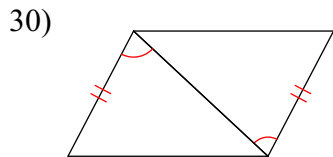
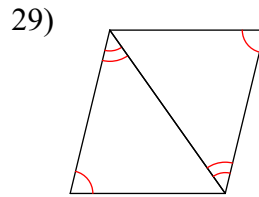
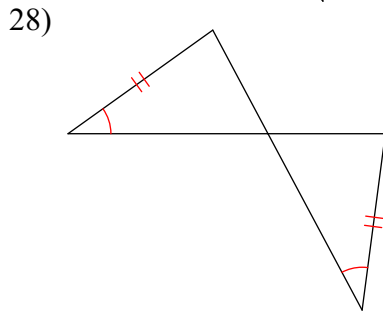
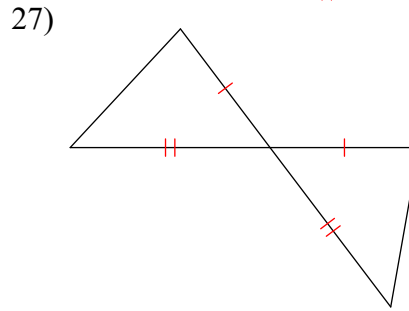
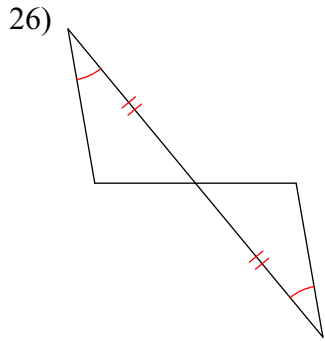
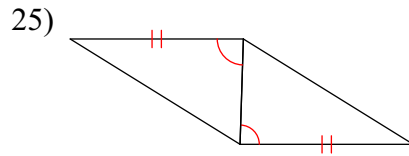
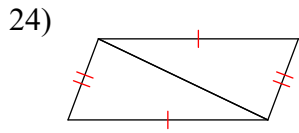
State if the two triangles are congruent. If they are, state how you know.

22)



23)

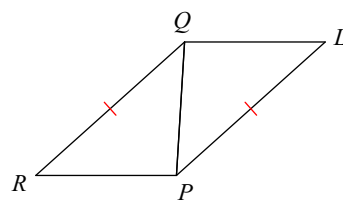
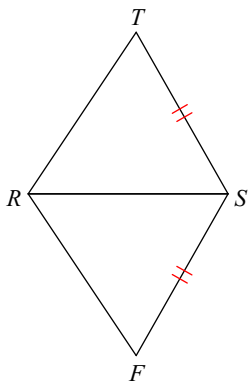




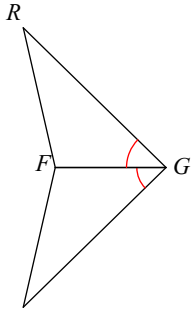
**State what additional information is required in order to know that the triangles are congruent for the reason given.**

32) SAS

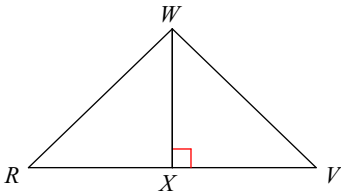
33) SAS



34) ASA

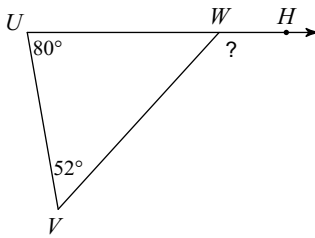


36) HL

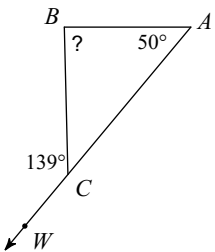


Find the measure of each angle indicated.

37)

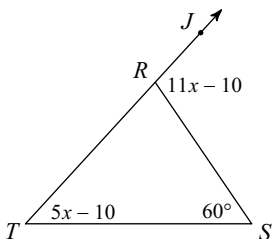


39)

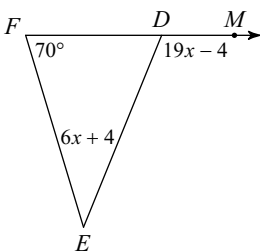


Solve for  $x$ .

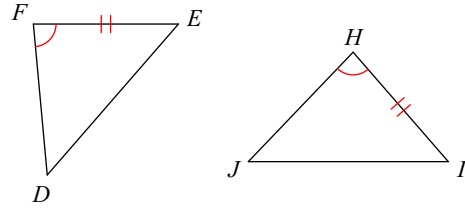
41)



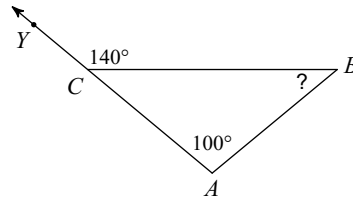
43)



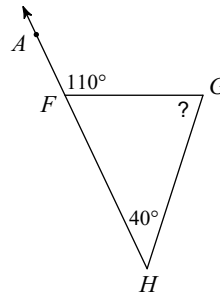
35) ASA



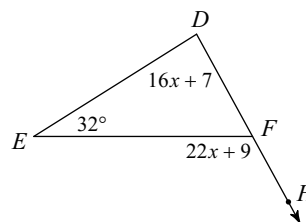
38)



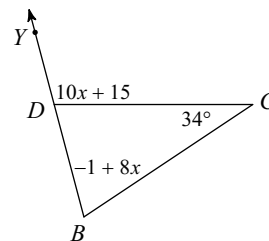
40)



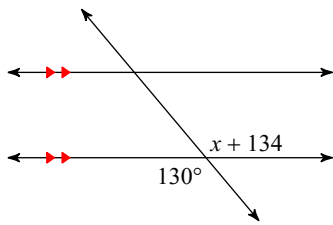
42)



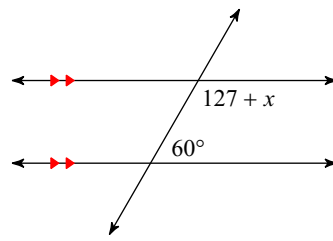
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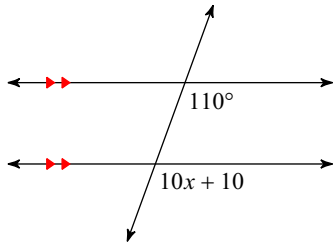
45)



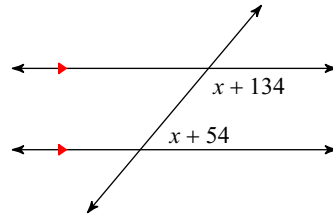
46)



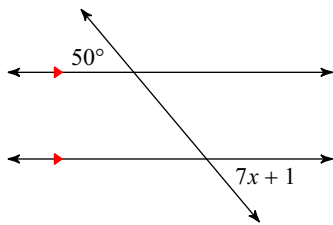
47)



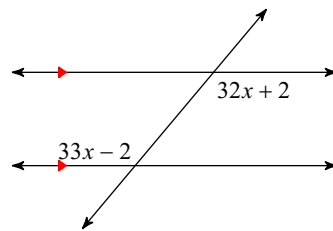
48)



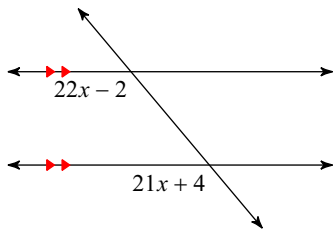
49)



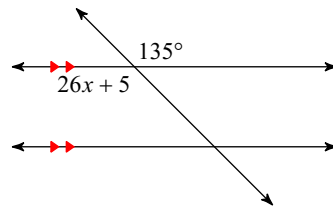
50)



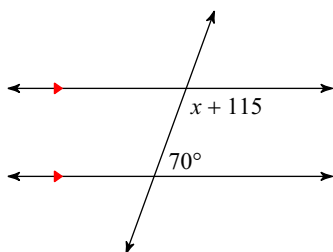
51)



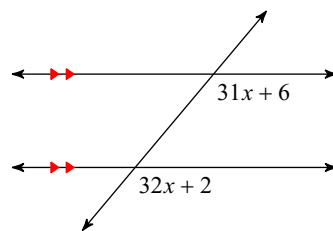
52)



53)

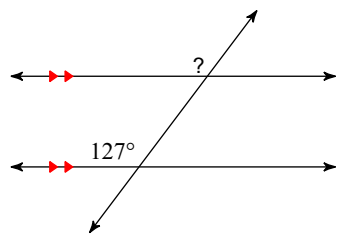


54)

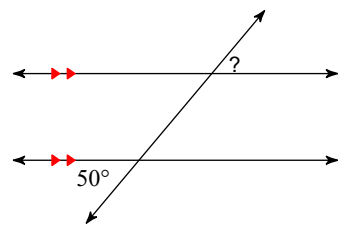


Find the measure of each angle indicated.

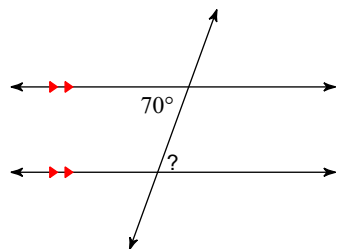
55)



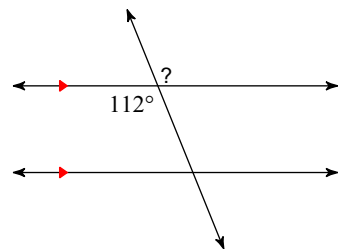
56)



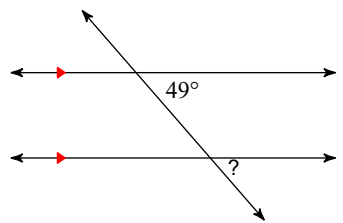
57)



58)

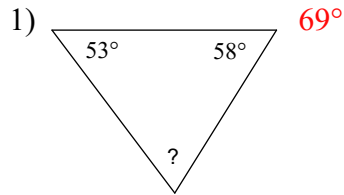


59)

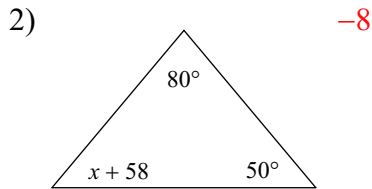


# Unit 2A Review

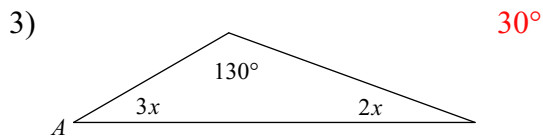
**Find the measure of each angle indicated.**



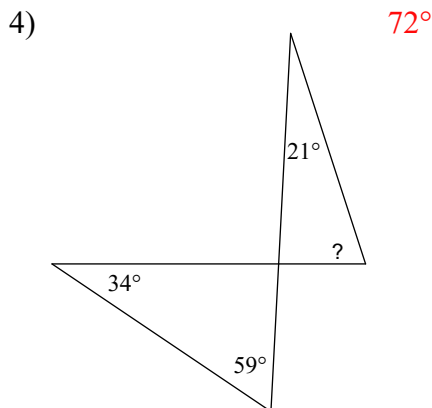
**Solve for  $x$ .**



**Find the measure of angle A.**

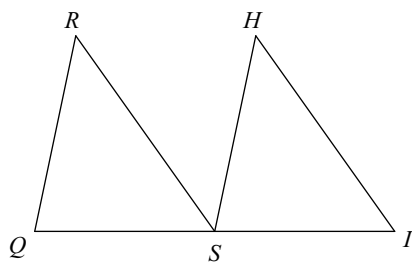


**Find the measure of each angle indicated.**



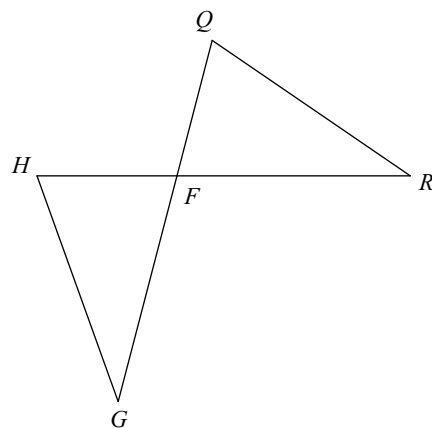
**Complete each congruence statement by naming the corresponding angle or side.**

5)  $\triangle QRS \cong \triangle SHI$   $\overline{HI}$



$\overline{RS} \cong ?$

6)  $\triangle FGH \cong \triangle FRQ$   $\overline{QF}$

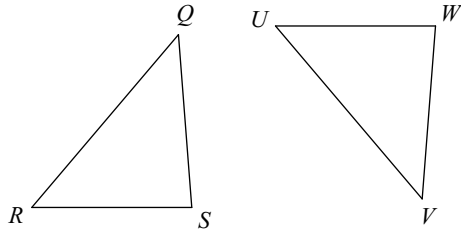


$\overline{HF} \cong ?$



7)  $\triangle RQS \cong \triangle UVW$

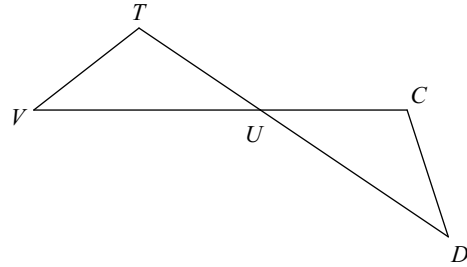
$\overline{WU}$



$\overline{SR} \cong ?$

8)  $\triangle UVT \cong \triangle UDC$

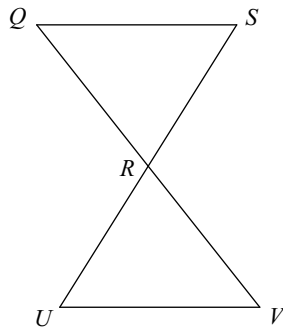
$\overline{DC}$



$\overline{VT} \cong ?$

9)  $\triangle RQS \cong \triangle RVU$

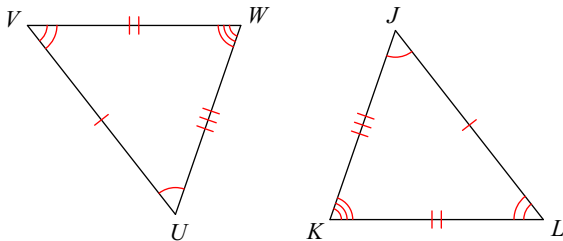
$\angle V$



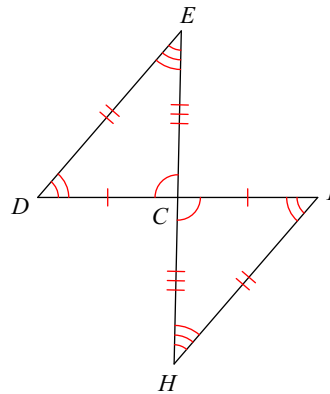
$\angle Q \cong ?$

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

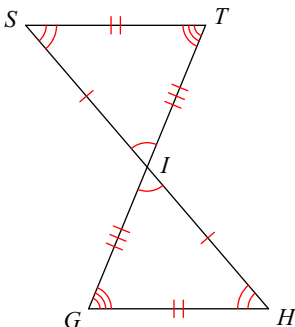
10)  $\triangle UVW \cong \triangle JLK$



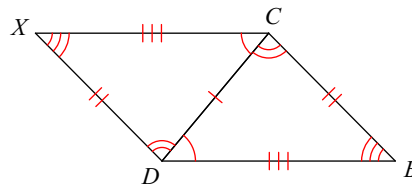
11)  $\triangle CDE \cong \triangle CIH$



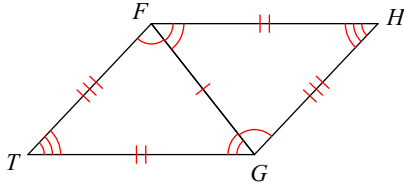
12)  $\triangle IHG \cong \triangle IST$



13)  $\triangle DCB \cong \triangle CDX$

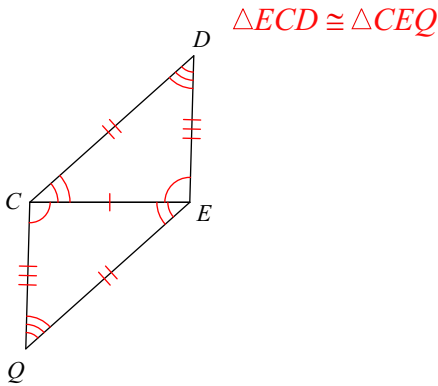


14)  $\triangle GFH \cong \triangle FGT$



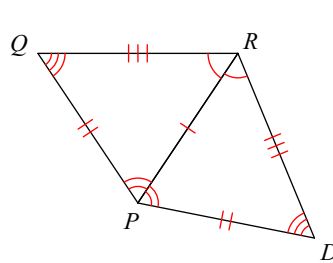
Write a statement that indicates that the triangles in each pair are congruent.

15)



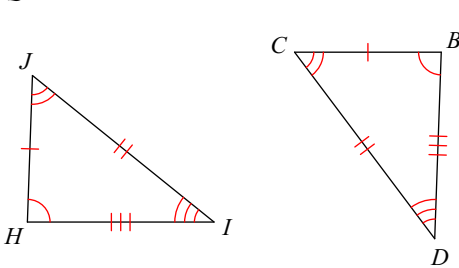
$\triangle ECD \cong \triangle CEQ$

16)

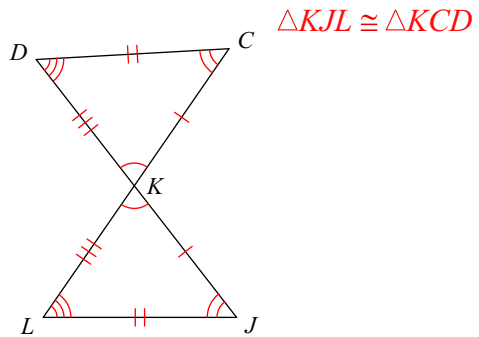


$\triangle RPQ \cong \triangle RPD$

17)

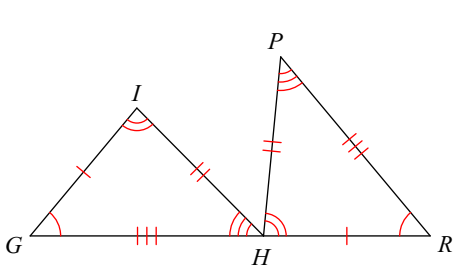


$\triangle HJI \cong \triangle BCD$



$\triangle KJL \cong \triangle KCD$

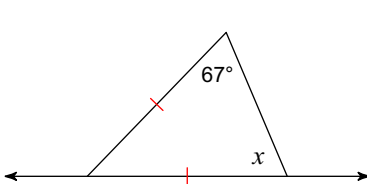
19)



$\triangle GIH \cong \triangle RHP$

Find the value of  $x$ .

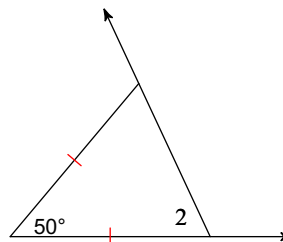
20)



$67^\circ$

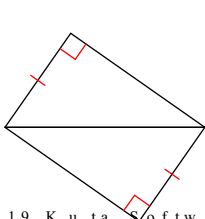
21)  $m\angle 2 = x + 72$

$-7$



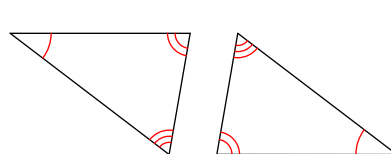
State if the two triangles are congruent. If they are, state how you know.

22)

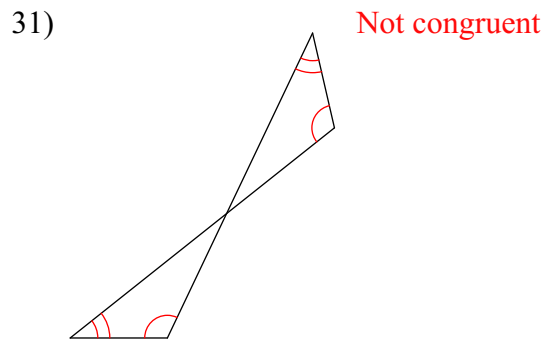
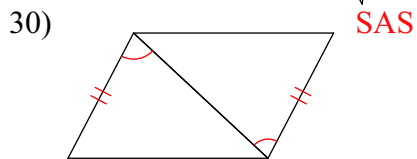
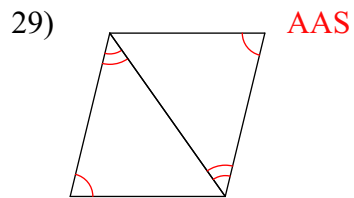
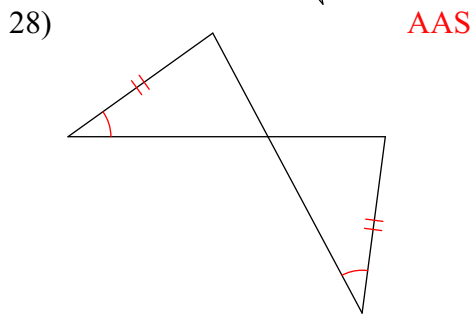
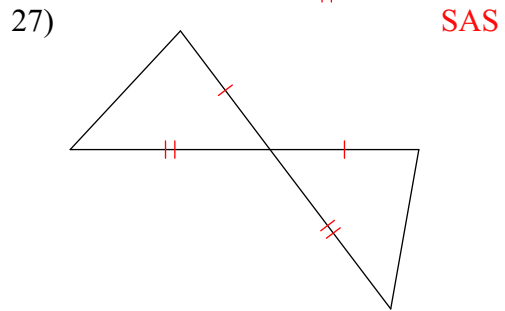
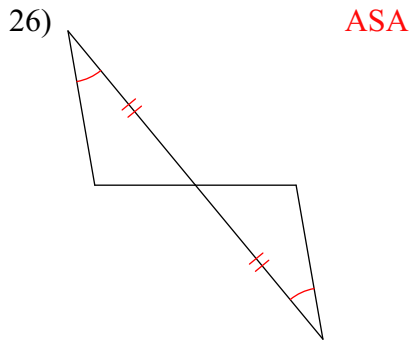
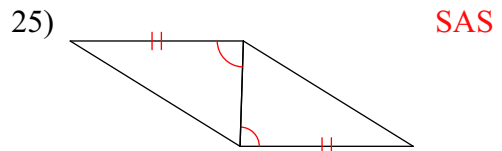
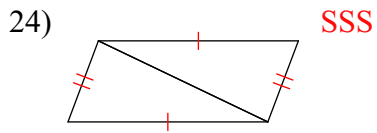


HL

23)



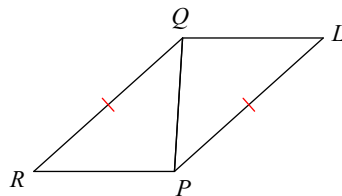
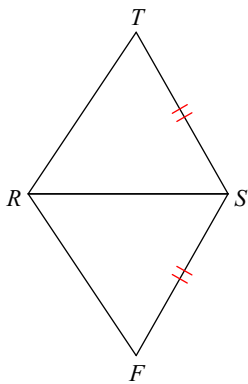
Not congruent



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

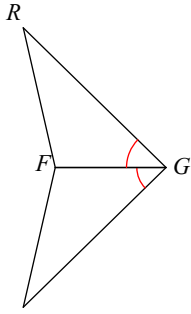
32) SAS  $\angle TSR \cong \angle FSR$

33) SAS  $\angle RQP \cong \angle LPQ$



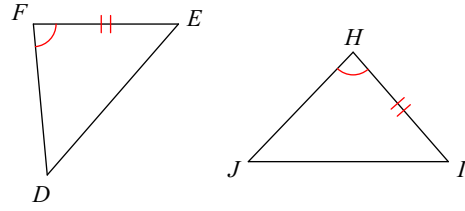
34) ASA

$$\angle HFG \cong \angle RFG$$



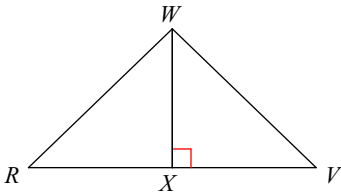
35) ASA

$$\angle E \cong \angle I$$



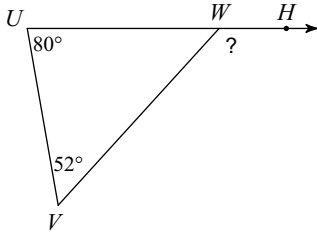
36) HL

$$\overline{WV} \cong \overline{WR}$$

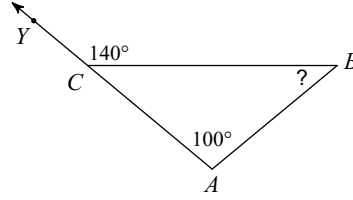


Find the measure of each angle indicated.

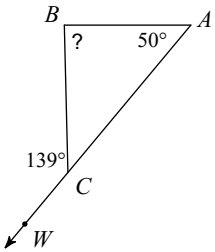
37)  $132^\circ$



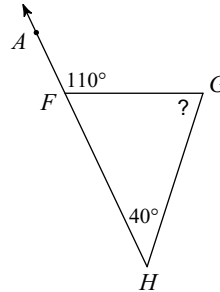
38)  $40^\circ$



39)  $89^\circ$

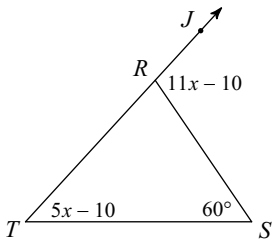


40)  $70^\circ$

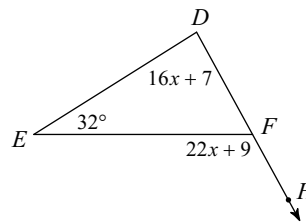


Solve for  $x$ .

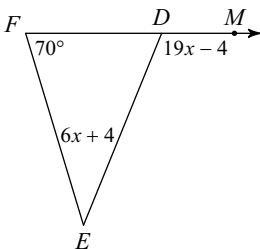
41) 10



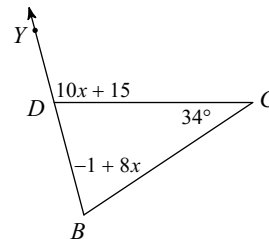
42) 5



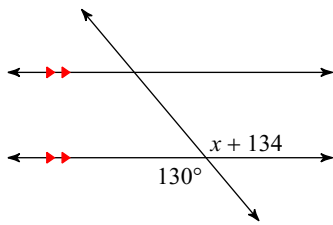
43) 6



44) 9

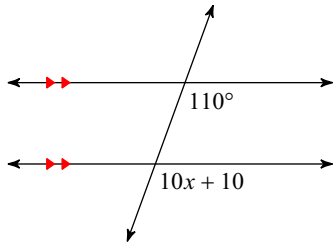


45)



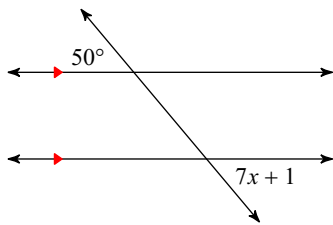
-4

47)



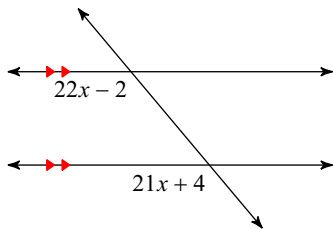
10

49)



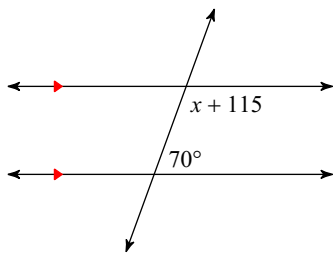
7

51)



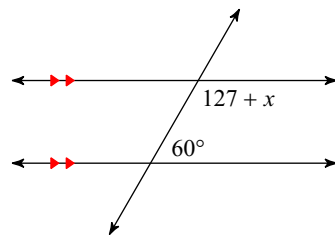
6

53)



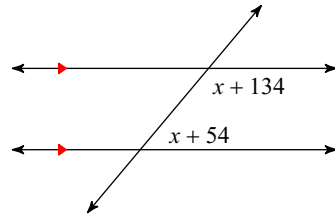
-5

46)



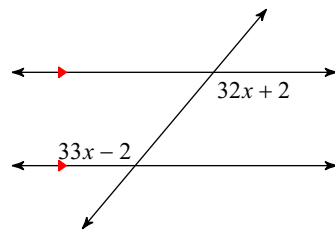
-7

48)



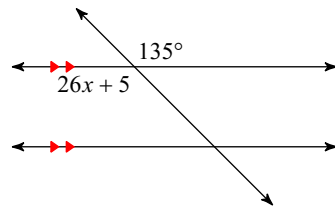
-4

50)



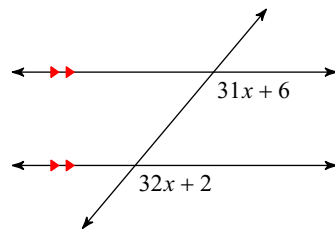
4

52)



5

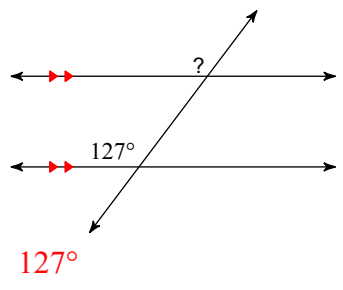
54)



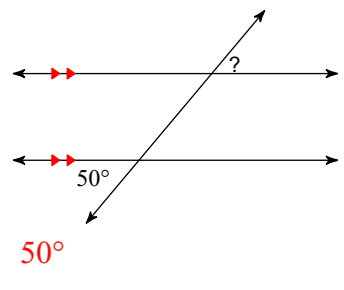
4

Find the measure of each angle indicated.

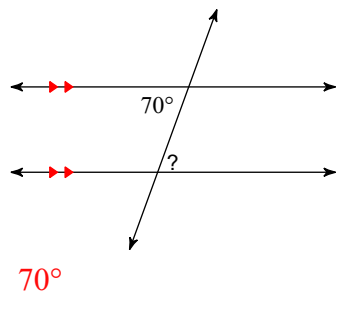
55)



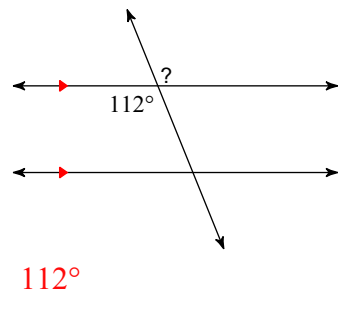
56)



57)



58)



59)

