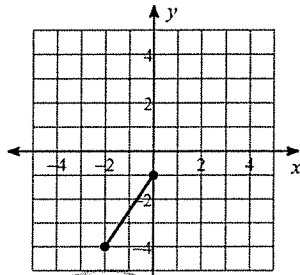


Final Review - Part 2

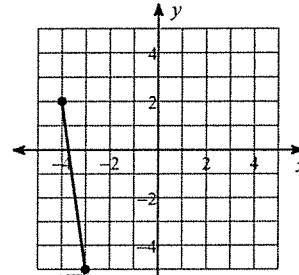
Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

1)



3.6

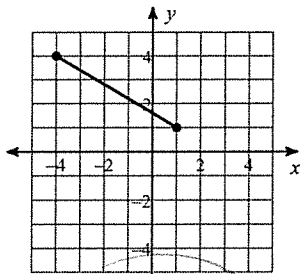
2)



7.1

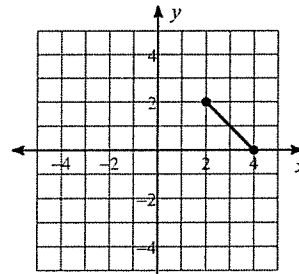
Find the midpoint of each line segment.

3)



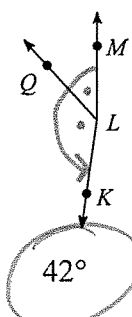
$(-1\frac{1}{2}, 2\frac{1}{2})$

4)



(3, 1)

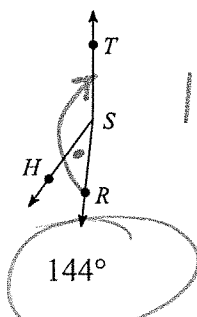
5) Find $m\angle QLM$ if $m\angle KLM = 28x + 4$, $m\angle QLM = 6x + 6$, and $m\angle KLQ = 130^\circ$.



$$28x + 4 = 6x + 6 + 130^\circ$$

42°

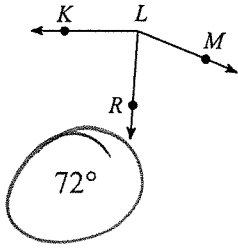
6) $m\angle RSH = 30^\circ$, $m\angle RST = 1 + 173x$, and $m\angle HST = -1 + 145x$. Find $m\angle HST$.



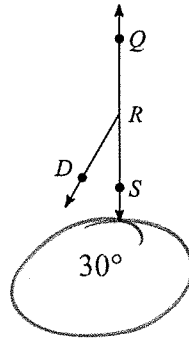
$$1 + 173x = 30 - 1 + 145x$$

144°

- 7) Find $m\angle MLR$ if $m\angle MLR = 7x + 2$,
 $m\angle RLK = 86^\circ$, and $m\angle MLK = 14x + 18$.



- 8) $m\angle DRQ = 150^\circ$, $m\angle SRQ = 89x + 2$,
and $m\angle SRD = 14x + 2$. Find $m\angle SRD$.



Find the measure of angle A.

- 9)

- 10)

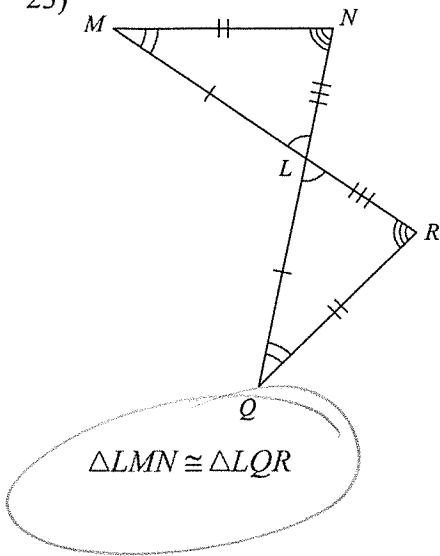
- 11)

- 12)

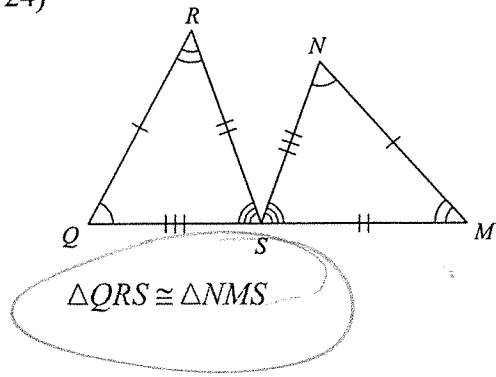
- 13)

- 14)

23)

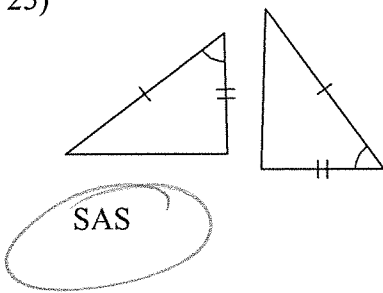


24)

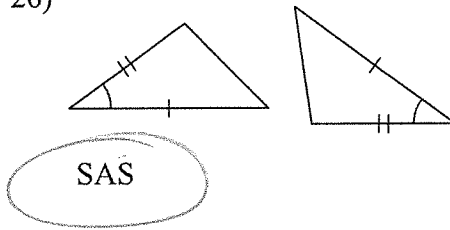


State if the two triangles are congruent. If they are, state how you know.

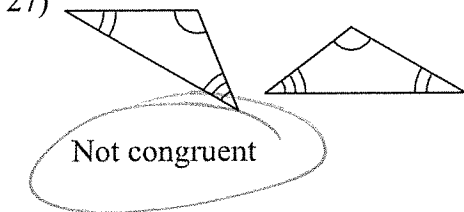
25)



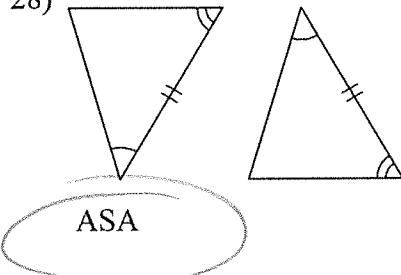
26)



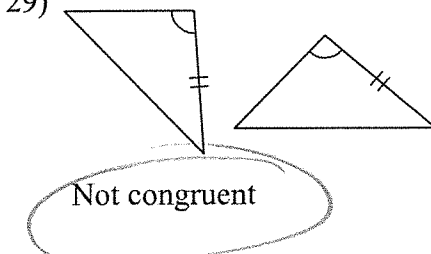
27)



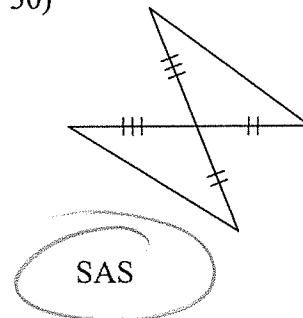
28)



29)

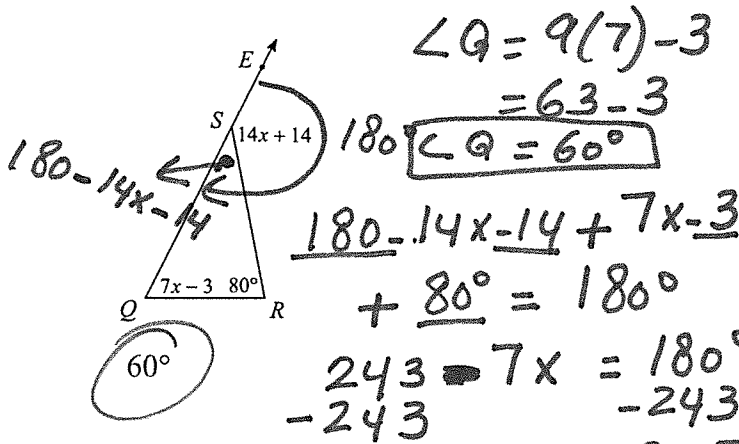


30)

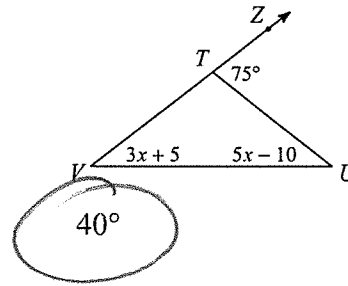


Find the measure of the angle indicated.

15) Find $m\angle Q$.

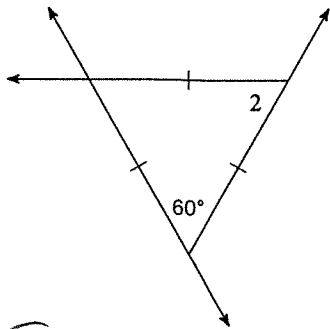


16) Find $m\angle U$.

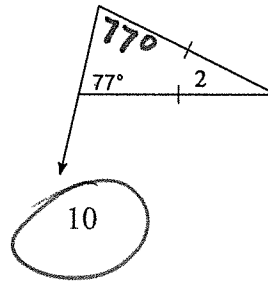


Find the value of x .

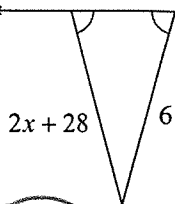
17) $m\angle 2 = 10x$



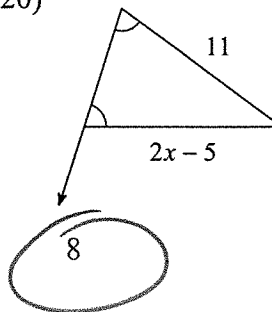
18) $m\angle 2 = x + 16$



19)

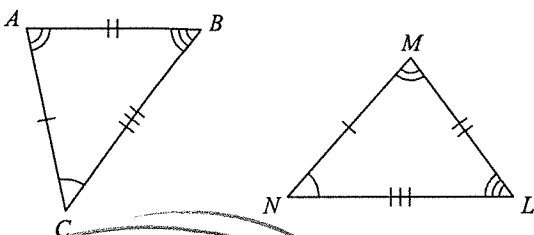


20)



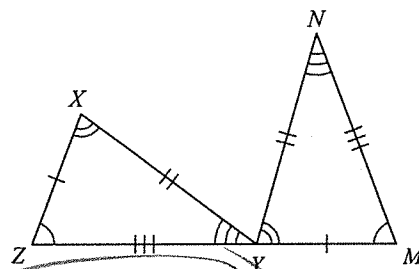
Write a statement that indicates that the triangles in each pair are congruent.

21)



$\triangle CAB \cong \triangle NML$

22)



$\triangle ZXY \cong \triangle MYN$