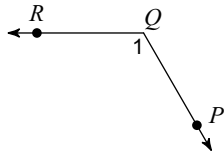


SM2 HW #10-4 (Unit 4 Review Part 1)

Name each angle in four ways.

1)



Find the midpoint of the line segment with the given endpoints.

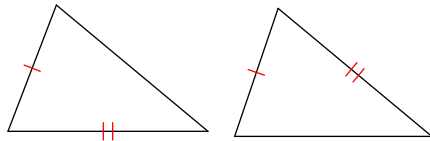
2) $(-7, -4), (-6, 8)$

Find the other endpoint of the line segment with the given endpoint and midpoint.

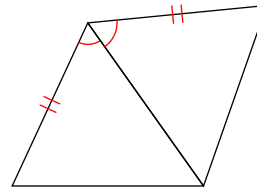
3) Endpoint: $(0, -8)$, midpoint: $(-6, 4)$

State if the two triangles are congruent. Give the Triangle Congruence Theorem that proves congruence.

4)



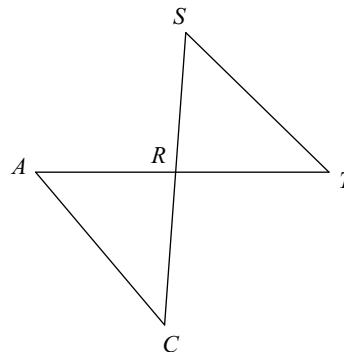
5)



6) Find the distance between $(2, 5)$ and $(7, 8)$

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

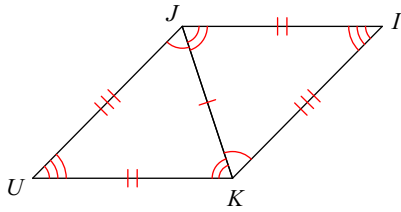
7) $\triangle RST \cong \triangle RAC$



$\overline{ST} \cong ?$

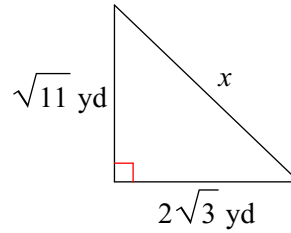
Write a statement that indicates that the triangles in each pair are congruent.

8)



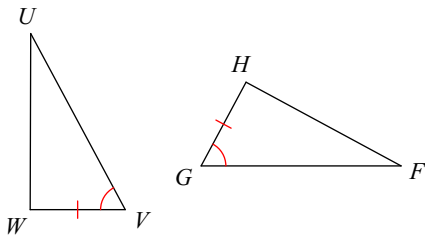
Find the missing side of each triangle. Leave your answers in simplest radical form.

9)



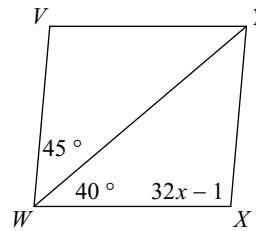
State what additional information is required in order to know that the triangles are congruent for the reason given.

10) AAS



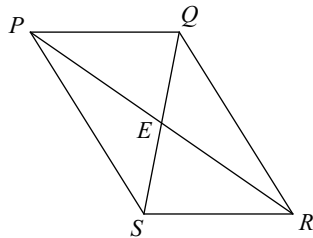
Solve for x . Each figure is a parallelogram.

11)

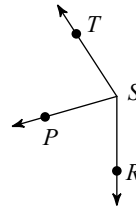


Find the measurement indicated in each parallelogram.

12) $QE = 2x + 15$
 $ES = x + 15$
 Find QE

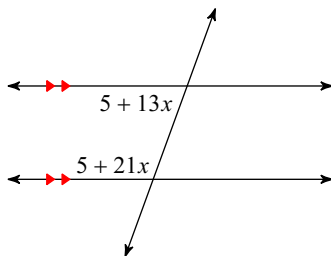


13) $m\angle PST = 73^\circ$ and $m\angle RSP = 74^\circ$.
 Find $m\angle RST$.



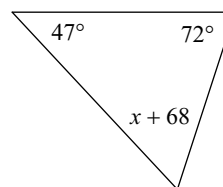
Solve for x .

14)



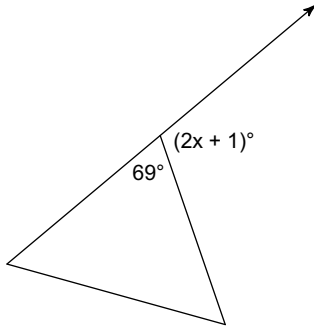
Solve for x . (1 point for your equation, 1 point for the correct answer.)

15)



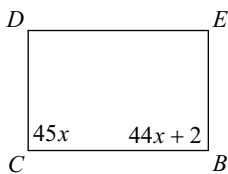
Find the value of x .

16)



Find the measurement indicated in each parallelogram.

18) Find $m\angle C$



Find the midpoint of the line segment with the given endpoints.

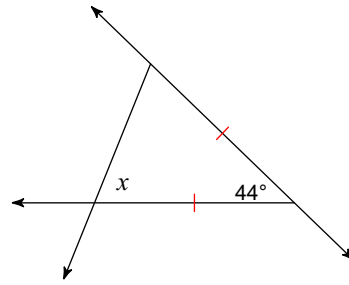
20) $(-7, -7)$, $(8, -8)$

Find the distance between each pair of points.

22) $(-5, -2)$, $(-2, -3)$

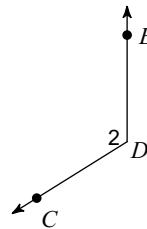
Find the value of x .

17)



Name each angle in four ways.

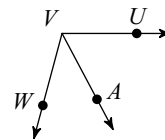
19)



Find the other endpoint of the line segment with the given endpoint and midpoint.

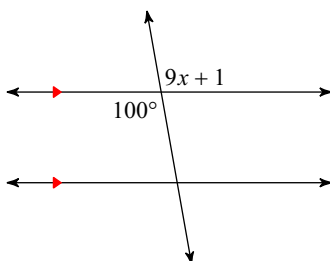
21) Endpoint: $(-10, -5)$, midpoint: $(-6, -4)$

23) Find $m\angle UVW$ if $m\angle AVW = 43^\circ$ and $m\angle UVA = 62^\circ$.

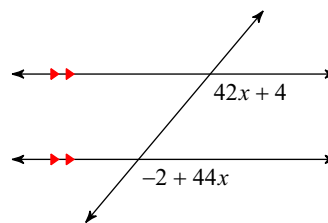


Solve for x .

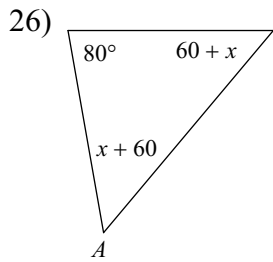
24)



25)

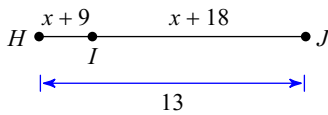


Find the measure of angle A.

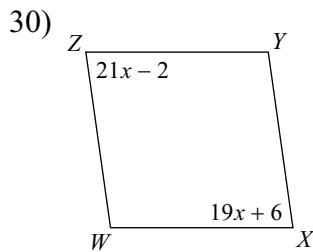


Find the length indicated.

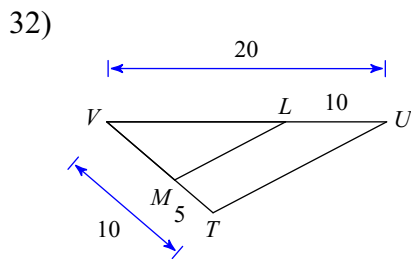
28) Find IJ



Solve for x . Each figure is a parallelogram.

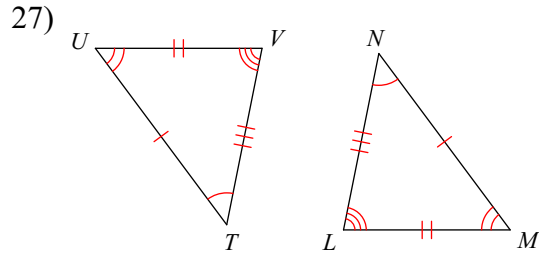


State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

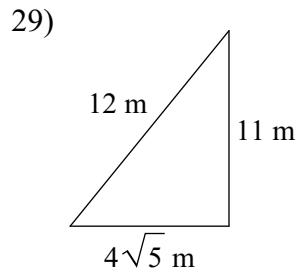


$\triangle VUT \sim$ _____

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

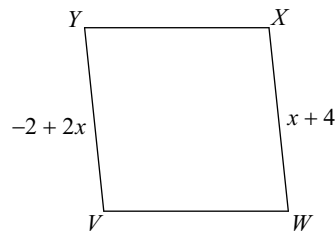


Use calculations to show that the triangle is (or is not) a right triangle.



Find the measurement indicated in each parallelogram.

31) Find XW



Solve for x . The triangles in each pair are similar.

