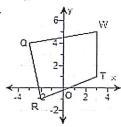
1.

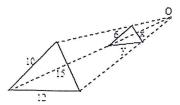
Use the graph at the right. Find the vertices of the image of QRTW for a dilation with center (0,0) and a scale factor of 12.

Q' (-36,48)



2.

In the following figure, the smaller triangle is the image of the larger triangle under a dilation centered at point O. Find the scale factor and the length of x and y as pictured.

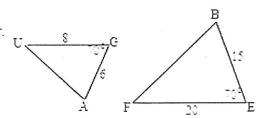


The numbers and letters represent the lengths of the sides of the triangles.

x=9 Y=7.2

Are the triangles similar? If yes, write a similarity statement and explain how you know they are similar.

SAS~



D

39 m

4.

Let Δ DOT~ Δ PAN. Find the missing side x.

26 m P 46 m

Similar? (Evidence)



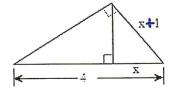
Solving for?

Property:

Equation:

Solve: $\chi = 60^\circ$

Find the value of \boldsymbol{x} using the figure to the right. 5.



x = (Simplify your answer.)

Similar? (Evidence)

Solving for?

Property:

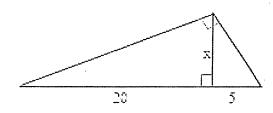
Equation:

Solve:



6. Solve for Yu

Solve for x using the figure to the right.



Similar? (Evidence)

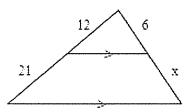
Solving for?

Property:

Equation:

Solve:

7. Using the following diagram, solve for x.



Similar? (Evidence)

Solving for?

Property:

Equation:

Solve:

Simi	larity	Unit	Review
100			

Name:_____

8.

Using the following diagram, solve for x.

	17/	\ 6
	/	1
21 /		
	•	
-		

Similar? (Evidence)

SAME AS

Solving for?

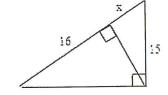
Equation:

Property:

Solve:

9.

Find the value of x using the figure to the right.



Similar? (Evidence)

Equation:

Solving for?

Solve:

X = 9

Property:

10. If a 40-foot tree casts a 16-foot shadow, find the length of the shadow cast by a 26-foot tree.

Draw a picture and solve

Similar? (Evidence)

Equation:

Solving for?

Solve: 10.4 FRAT

Property:

11.

Given ΔSTU and ΔDEF , what is $m\angle U$?

20

Similar? (Evidence)

Solving for?

Property:

Equation:

Solve:

m L U = 46°

12.

Solving for?

Property:

Equation:

Solve: $\chi = 1$

For what value of x is $\triangle ABC \sim \triangle DEF$?

