

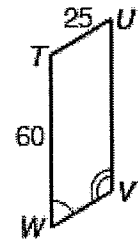
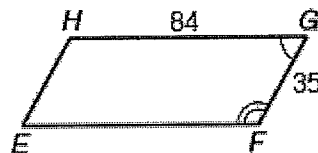
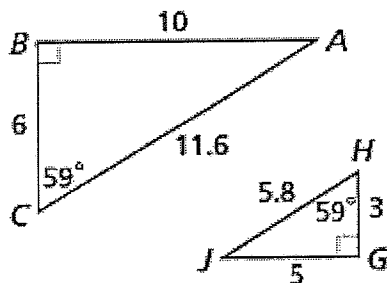
Module 11 Quiz Review (11.3-11.4)

Name: _____

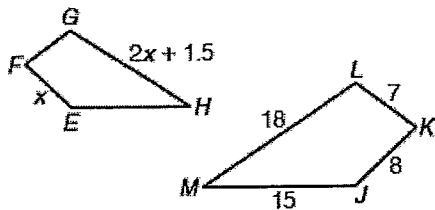
11.3: This section covers the definition of similar polygons as well as solving for missing sides and angles given a similarity statement.

#1 Verify the figures shown below are similar by finding three pairs of \cong corresponding angles and showing the ratios of corresponding sides are equal. Write a similarity statement and identify both scale factors.

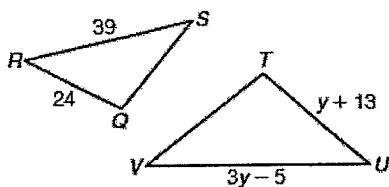
Hint: These are parallelograms



#2 $EFGH \sim JKLM$. What is the value of x ?



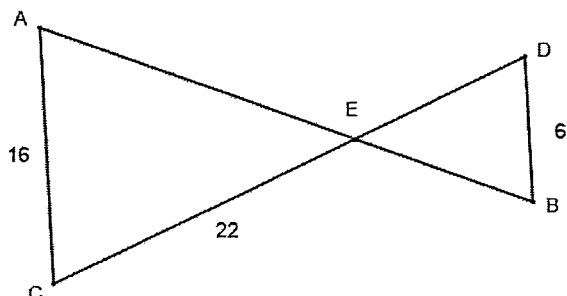
#3 $\triangle QRS \sim \triangle TUV$. Find the value of y .



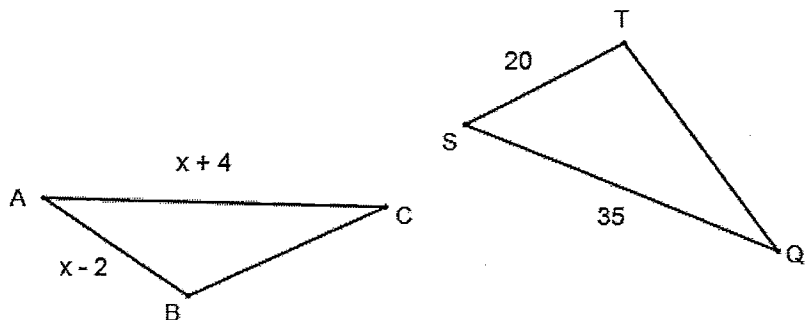
Assignment over 11.3 Worksheet

Name: _____ A

#1 $\triangle AEC \sim \triangle BED$. Find DE .



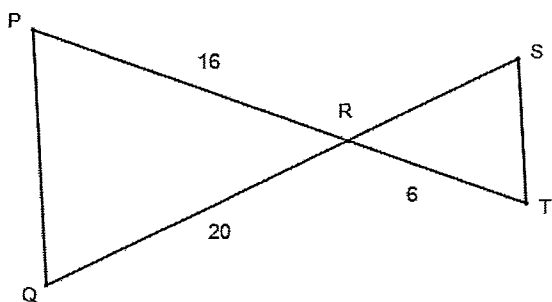
#2 $\triangle ABC \sim \triangle STQ$. Find AC . (Picture is not drawn to scale).



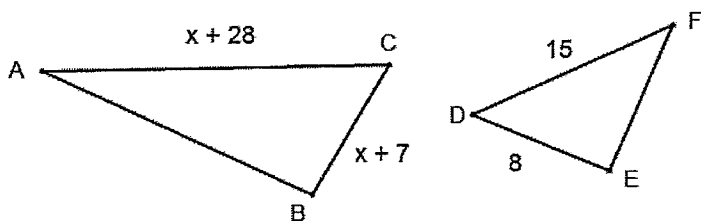
Assignment over 11.3 Worksheet

Name: _____ A'

#1 $\triangle PQR \sim \triangle TSR$. Find RS .



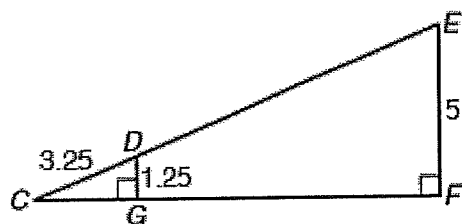
#2 $\triangle ABC \sim \triangle FED$. Find BC . (Picture is not drawn to scale).



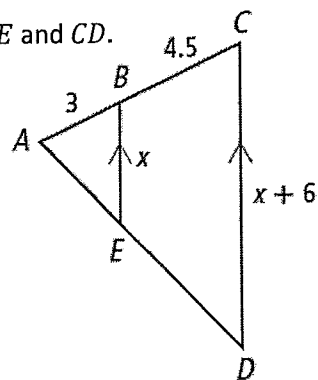
11.4: In this section, we proved triangles were similar using the AA Theorem. We then found missing sides of similar figures as in the problems on the previous page.

#4 Prove each pair of triangles are similar by finding a pair of congruent corresponding angles. Write a similarity statement, then find the requested lengths:

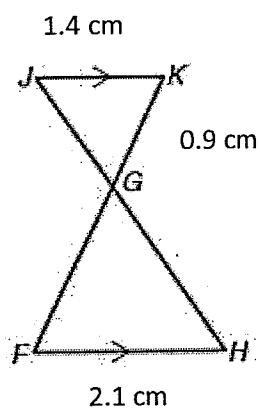
A. Find DE and CE .



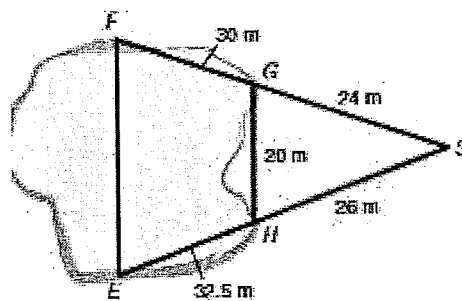
B. Find BE and CD .



C. Find FG .



D. To measure the distance EF across the lake, a surveyor at S locates points E , F , G , and H as shown. What is EF ?

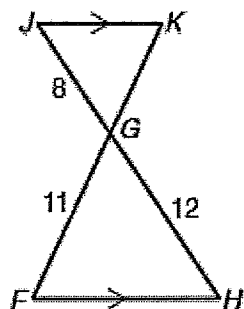


11.4: Proving Triangles Similar by AA Theorem

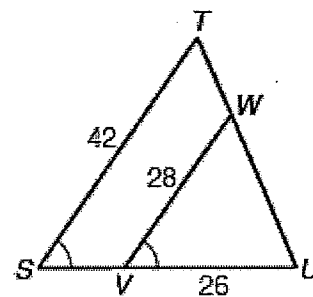
Name: _____

For the following problems, verify the triangles are similar using the AA Postulate. Then, write a similarity statement, set up proportions, and solve the problem.

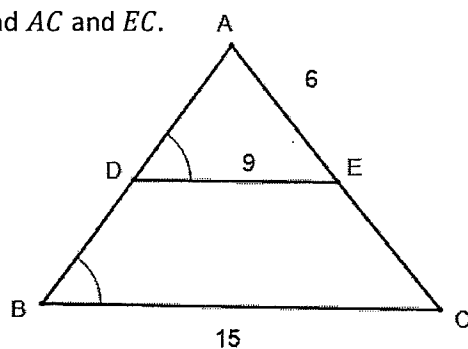
#1 Find GK .



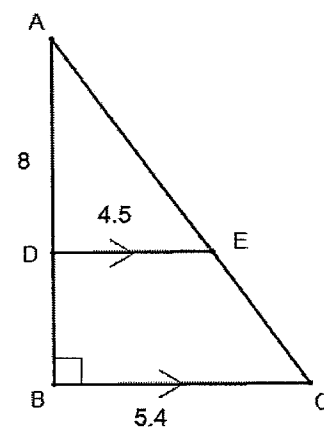
#2 Find US .



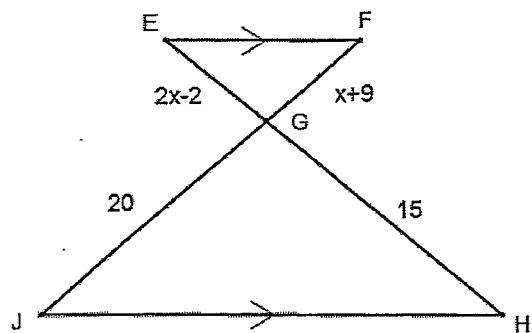
#3 Find AC and EC .



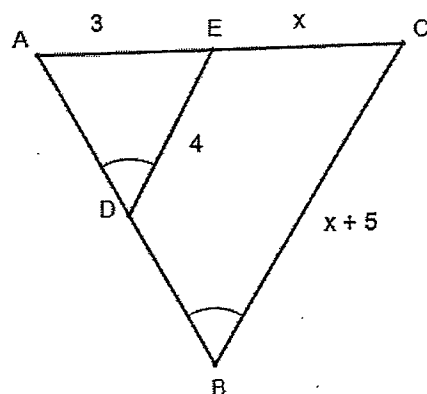
#4 Find AB .



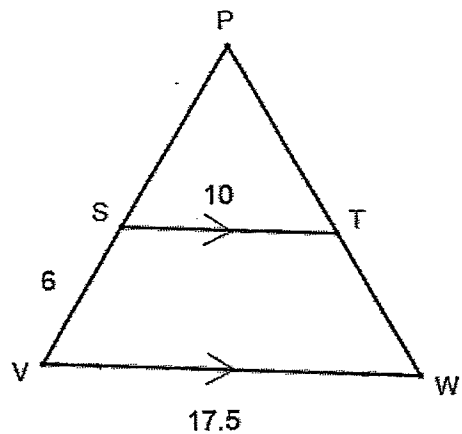
#5

Find FG .

#6

Find BC .

#7

Find PS .

#8

Find ED , AE , and EB .