

Semester 1: Final Exam Study Guide

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End of Unit 3: Study Guide

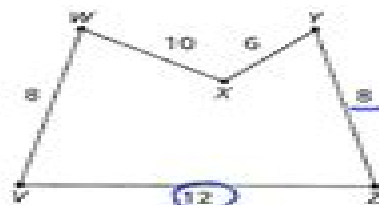
1. Triangle ABC is dilated. The image is $A'B'C'$. Find the value of x .

$$\frac{6}{9} = \frac{x}{10}$$

$$9x = 60 \rightarrow x = 6.67$$



2. Is it possible for polygon $ABCDE$ to be dilated to figure $VWXYZ$? Explain your reasoning.



all sides are dilated by a scale factor of 2 except side AE so it is not a dilation of VWXYZ

3. Decide whether triangles ABC and DEC are similar. Explain or show your reasoning.

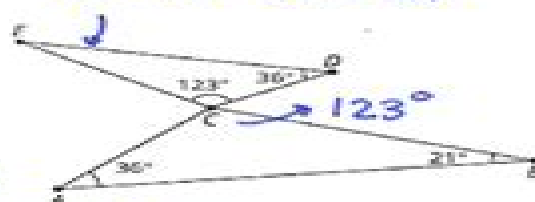
$$\angle A \cong \angle D$$

$$\angle B \cong \angle E$$

thus $\triangle ABC \sim \triangle DEC$

by AA similarity theorem

$$180 - 123 - 36 = 21^\circ$$



4. List the three triangle similarity theorems and describe what they mean.

AA \rightarrow 2 pairs of congruent angles from one triangle to another

SAS \rightarrow 2 pairs of sides are proportional and the included angle is congruent

SSS \rightarrow 3 pairs of sides are proportional from one triangle to another

Geometry Semester 1 Instructional Materials Answers

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