

Name: _____

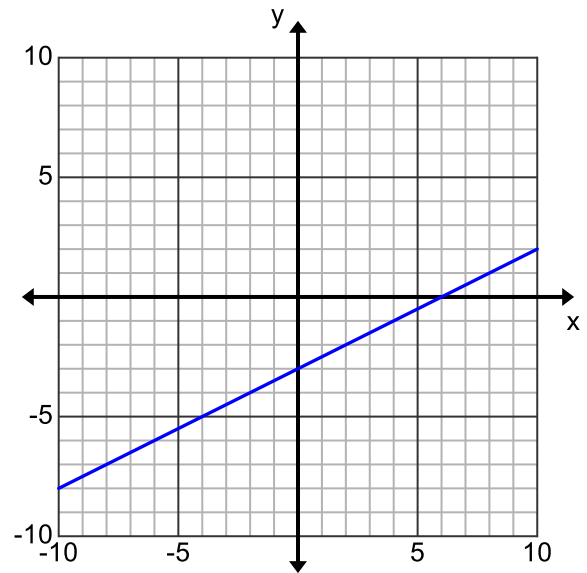
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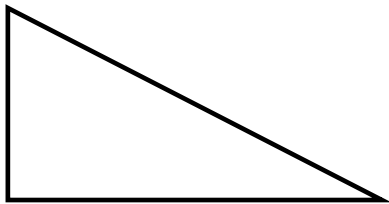
Applied Geometry

Review of 7.1-7.3

1. Write the ratio expressing the slope of the line.



2. The ratio of the angle measures of a triangle are 2 : 5 : 7. What is the measure of each angle? Only an algebraic solution will be accepted.

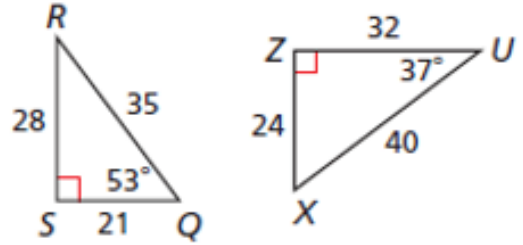


3. Solve the proportion.

$$\frac{6}{9} = \frac{x-1}{2x-4}$$

4. $\triangle QRS \sim \triangle XUZ$

a. List the corresponding congruent angles.



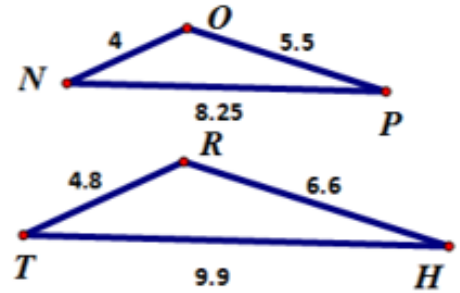
b. Show that the corresponding sides are proportional.

c. What is the Similarity Ratio?

5. Determine if the following triangles are similar, by using one of the similarity theorems.

$AA \sim$ or $SAS \sim$ or $SSS \sim$

Show work to justify your answer.



If yes, identify the similarity theorem used and write a similarity statement. If no, write "not similar."

Similarity theorem: _____

Similarity statement: \triangle _____ \sim \triangle _____