



Name _____

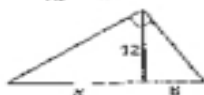
Date _____

Practice B

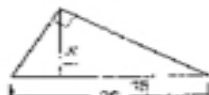
For use with pages 527-534

Complete and solve the proportion.

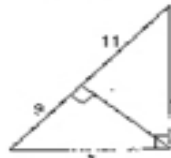
1. $\frac{y}{12} = \frac{9}{k}$



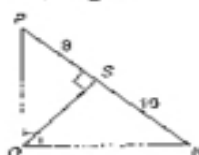
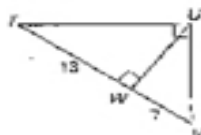
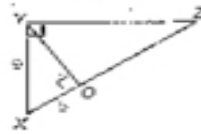
2. $\frac{15}{x} = \frac{x}{20}$



3. $\frac{9}{4} = \frac{2}{3}$



Write similarity statements for three similar triangles in the diagram. Then find the given length.

4. Find QN .5. Find YU .6. Find XZ .

Find the value of each variable.

7.



8.



9.



Complete the proof.

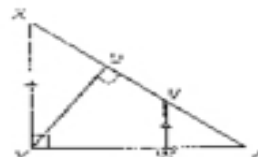
10. Given: $\triangle XYZ$ is a right triangle with $m\angle XYZ = 90^\circ$; $\overline{WV} \parallel \overline{XY}$, \overline{YW} is an altitude of $\triangle XYZ$.Prove: $\triangle YWZ \sim \triangle VWZ$

Statements _____

- $\triangle XYZ$ is a right \triangle with altitude \overline{YW} .
- $\triangle XYZ \sim \triangle YWZ$
- $\overline{WV} \parallel \overline{XY}$
- $\angle VWZ \cong \angle XYZ$
- $\angle Z \cong \angle Z$
- $\triangle XYZ \sim \triangle VWZ$
- $\triangle YWZ \sim \triangle VWZ$

Reasons _____

- _____ ?
- _____ ?
- _____ ?
- _____ ?
- _____ ?
- _____ ?
- _____ ?



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Geometry
Chapter 9 Resource Book