



Name _____

Date _____

Practice B

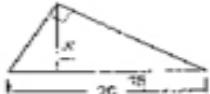
Pages with pages 523–534

Complete and solve the proportion.

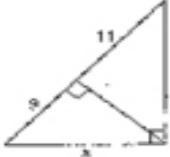
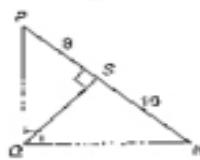
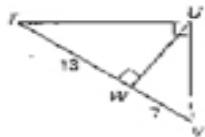
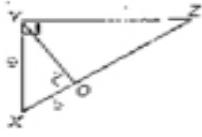
1. $\frac{y}{12} = \frac{7}{8}$



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

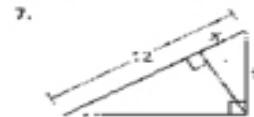


3. $\frac{9}{x} = \frac{3}{2}$

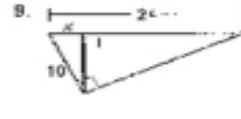
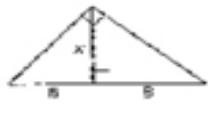
Write similarity statements for three similar triangles in the diagram.
Then find the given length.4. Find QS .5. Find TU .6. Find XZ .

Find the value of each variable.

7.



8.



Complete the proof.

10. Given:
- $\triangle XYZ$
- is a right triangle with
- $m\angle XYZ = 90^\circ$
- ;
- $YW \parallel XY$
- ;
- YU
- is an altitude of
- $\triangle XYZ$
- .

Prove: $\triangle YWZ \sim \triangle VWZ$

Statements _____

1. $\triangle XYZ$ is a right \triangle with altitude YU .
2. $\triangle XYZ \sim \triangle YUX$
3. $YW \parallel XY$
4. $\angle WYZ = \angle XYZ$
5. $\angle Z = \angle Z$
6. $\triangle XYZ \sim \triangle VWZ$
7. $\triangle YUZ \sim \triangle VWZ$

Reasons _____

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

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