

Name _____

Date _____

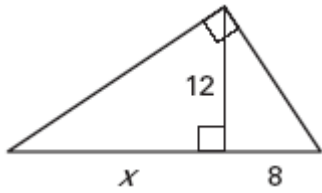
LESSON 7.3

Practice B

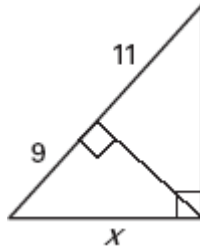
For use with pages 448–456

Complete and solve the proportion.

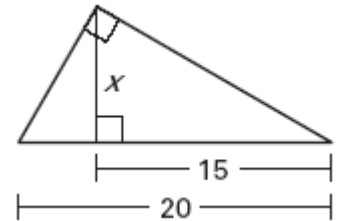
1. $\frac{x}{12} = \frac{8}{x}$



2. $\frac{9}{x} = \frac{x}{11}$

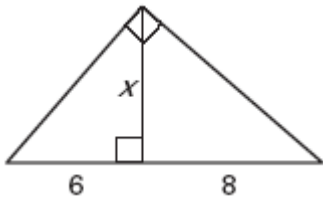


3. $\frac{15}{x} = \frac{x}{20}$

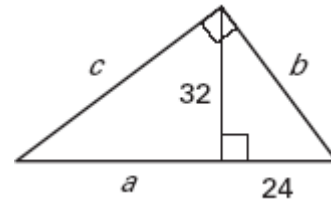


Find the value(s) of the variable(s).

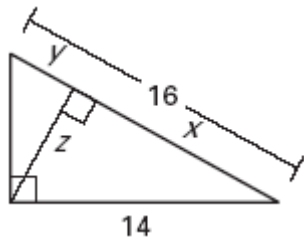
4.



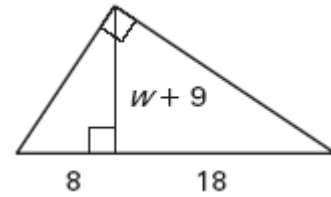
5.



6.

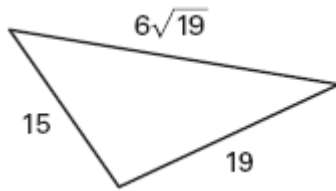


7.

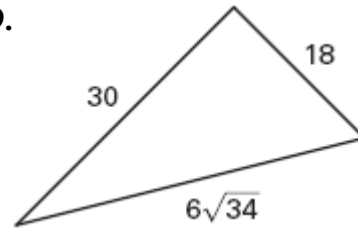


Tell whether the triangle is a right triangle. If so, find the length of the altitude to the hypotenuse. Round decimal answers to the nearest tenth.

8.

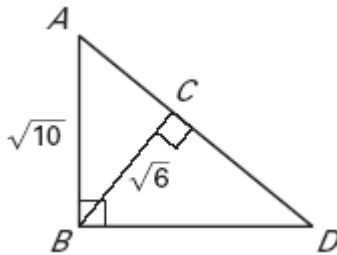


9.

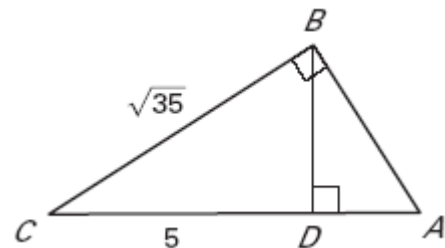


Use the Geometric Mean Theorems to find AC and BD .

10.



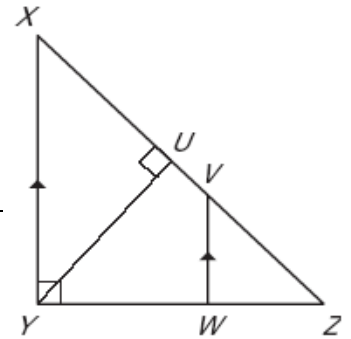
11.



12. **GIVEN:** $\triangle XYZ$ is a right triangle with $m\angle XYZ = 90^\circ$.

$\overline{VW} \parallel \overline{XY}$, YU is an altitude of $\triangle XYZ$.

PROVE: $\triangle YUZ \sim \triangle VWZ$



Statements	Reasons
1. $\triangle XYZ$ is a right \triangle with altitude \overline{YU} .	1. _____
2. $\triangle XYZ \sim \triangle YUZ$	2. _____
3. $\overline{VW} \parallel \overline{XY}$	3. _____
4. $\angle VWZ \cong \angle XYZ$	4. _____
5. $\angle Z \cong \angle Z$	5. _____
6. _____	6. AA Similarity Postulate
7. $\triangle YUZ \sim \triangle VWZ$	7. _____