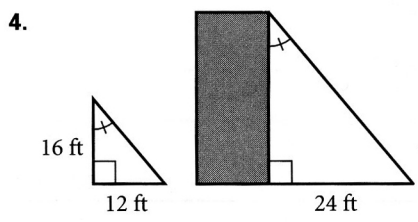
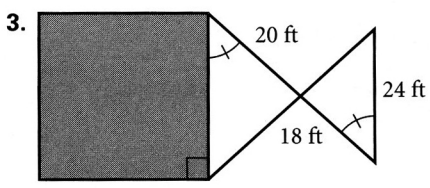
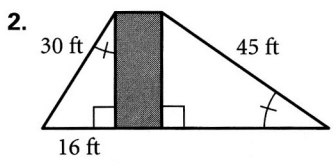
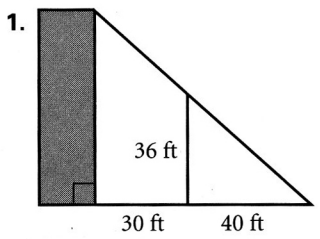


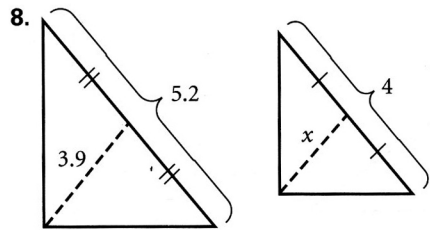
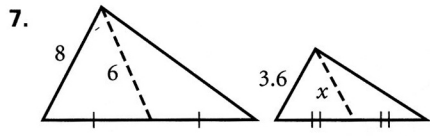
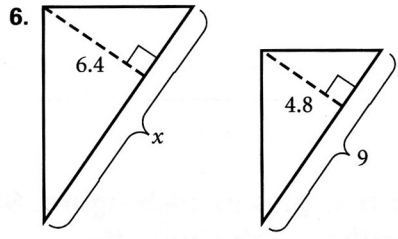
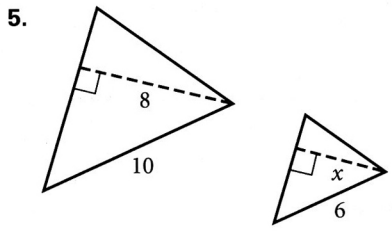
Practice

8.5 Indirect Measurement and Additional Similarity Theorems

In Exercises 1–4, use the diagrams to find the height of each building.



In Exercises 5–8, the triangles are similar. Find x .

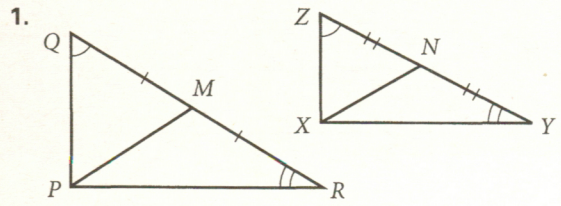




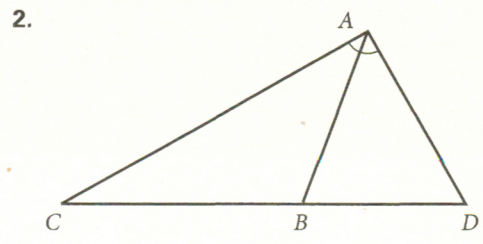
Practice Masters Level A

8.5 Indirect Measurement and Additional Similarity Theorems

In Exercises 1 and 2, complete the equation to make a true proportion.

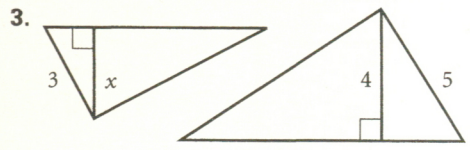


$$\frac{PM}{XN} = \underline{\hspace{2cm}}$$

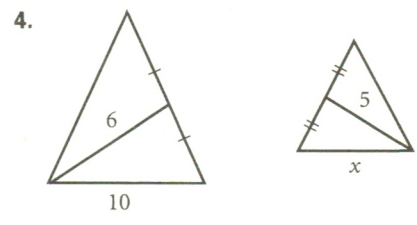


$$\frac{BC}{BD} = \underline{\hspace{2cm}}$$

In Exercises 3–6, the triangles are similar. Find x .

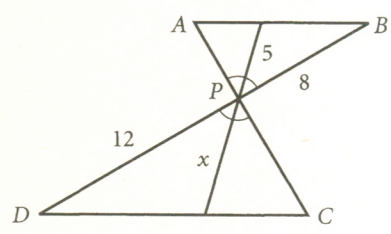


$$x = \underline{\hspace{2cm}}$$



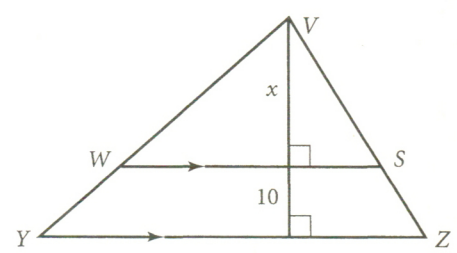
$$x = \underline{\hspace{2cm}}$$

5. Given: $\triangle APB \sim \triangle CPD$



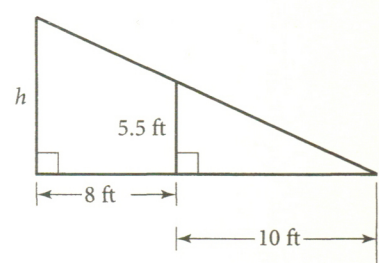
$$x = \underline{\hspace{2cm}}$$

6. Given: $\triangle WVS \sim \triangle YVZ$, $WS = 24$, $YZ = 30$



$$x = \underline{\hspace{2cm}}$$

7. When Susan stands 8 feet from the base of a street lamp, her shadow is 10 feet long. Susan is $5\frac{1}{2}$ feet tall. Find the height, h , of the lamp.



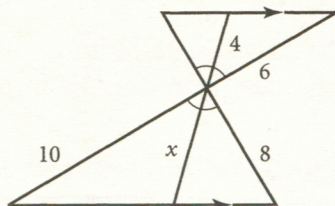


Practice Masters Level B

8.5 Indirect Measurement and Additional Similarity Theorems

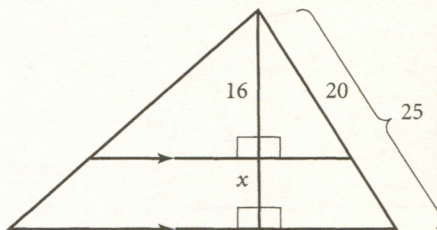
In Exercises 1–4, apply a similarity theorem to find x .

1.



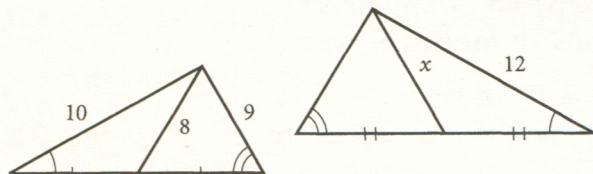
$x =$ _____

2.



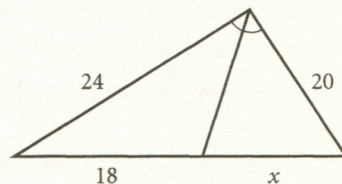
$x =$ _____

3.



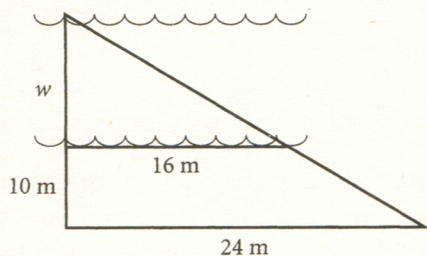
$x =$ _____

4.



$x =$ _____

5. Use the diagram to find the width, w , of the river.



6. On a sunny day Maria, who is 5 feet tall, is standing near a tree. Her shadow is 12 feet long, while the shadow of the tree is 32 feet long. Use this information to find the height of the tree.

