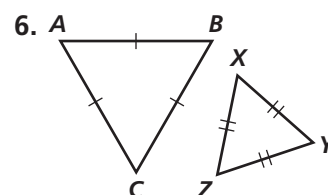
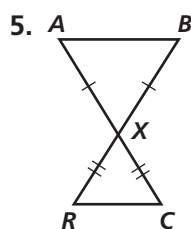
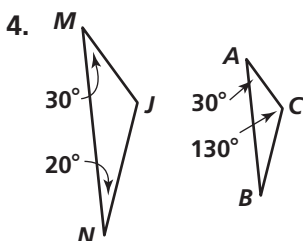
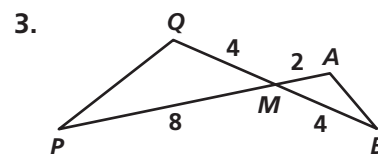
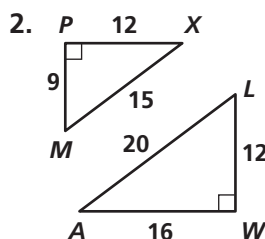
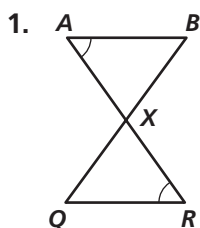


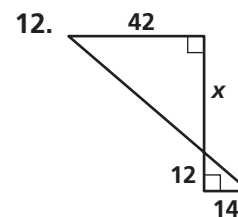
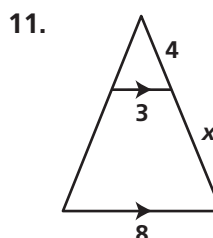
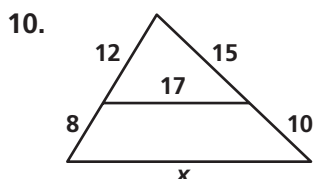
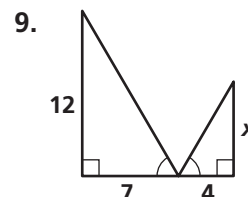
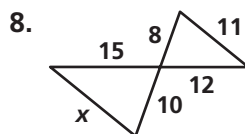
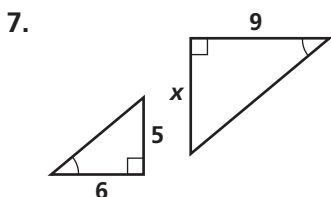
Practice 7-3

Proving Triangles Similar

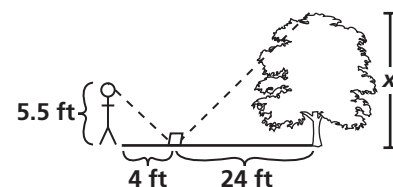
Explain why the triangles are similar. Write a similarity statement for each pair.



Algebra Find the value of x .

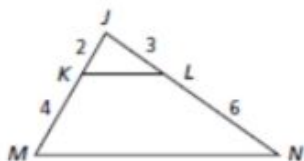


13. Natasha places a mirror on the ground 24 ft from the base of an oak tree. She walks backward until she can see the top of the tree in the middle of the mirror. At that point, Natasha's eyes are 5.5 ft above the ground, and her feet are 4 ft from the image in the mirror. Find the height of the oak tree.



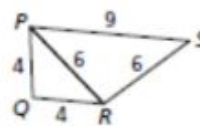
Examples: Determine if the triangles are similar. If so, tell why and write the similarity statement and similarity ratio.

1.



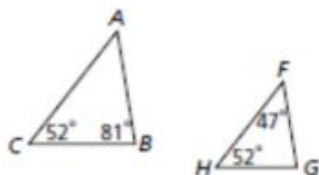
Similar : Y or N Why: _____
 Similarity Statement : _____ ~ _____
 Similarity Ratio : _____

2.



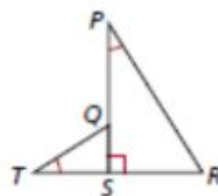
Similar : Y or N Why: _____
 Similarity Statement : _____ ~ _____
 Similarity Ratio : _____

3.



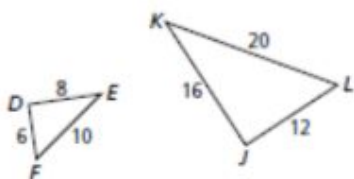
Similar : Y or N Why: _____
 Similarity Statement : _____ ~ _____
 Similarity Ratio : _____

4.



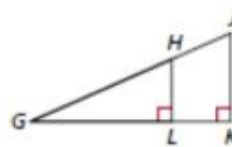
Similar : Y or N Why: _____
 Similarity Statement : _____ ~ _____
 Similarity Ratio : _____

5.



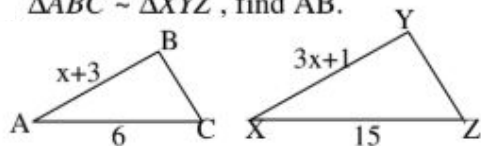
Similar : Y or N Why: _____
 Similarity Statement : _____ ~ _____
 Similarity Ratio : _____

6.

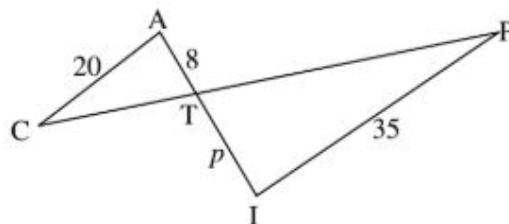


Similar : Y or N Why: _____
 Similarity Statement : _____ ~ _____
 Similarity Ratio : _____

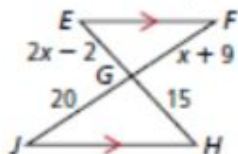
7. $\triangle ABC \sim \triangle XYZ$, find AB.



8. If $\triangle CAT$ is similar to $\triangle PIT$, what is the length of p ?



9. $\triangle EFG \sim \triangle HJG$, find FG.



10. If $\triangle CAT$ is similar to $\triangle PIT$, what is the length of TP?

