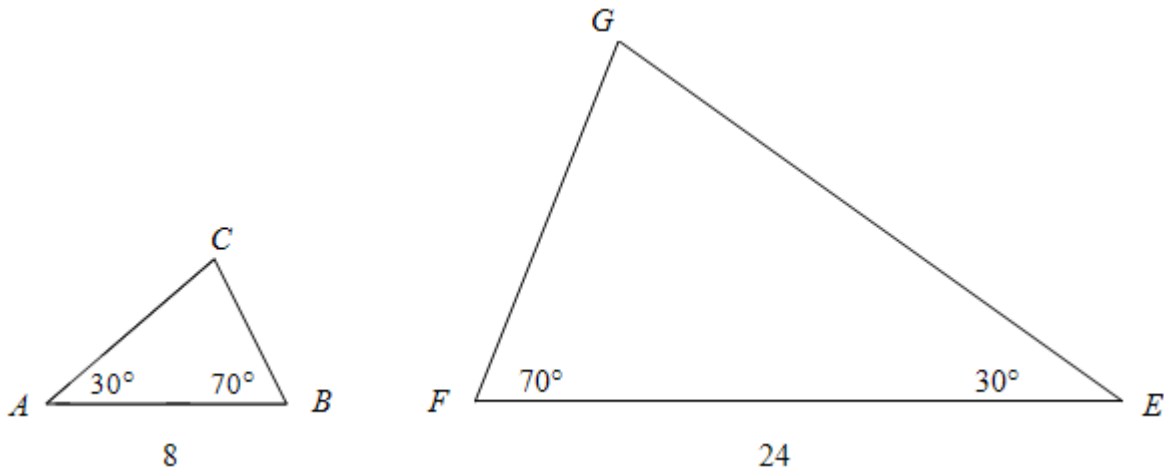
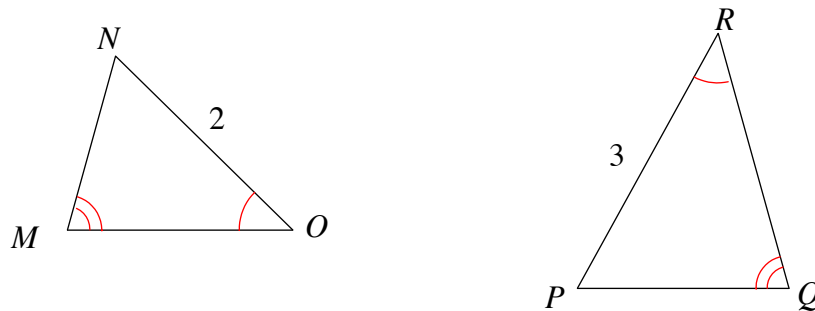


Similar Triangles

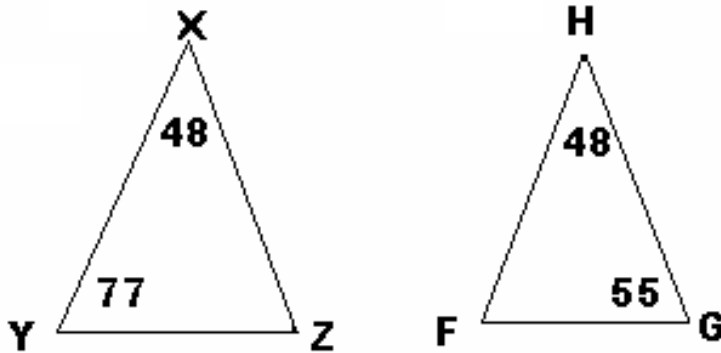
1. The sketch below shows two triangles, $\triangle ABC$ and $\triangle EFG$. $\triangle ABC$ has an area of 12 square units, and its base (AB) is equal to 8 units. The base of $\triangle EFG$ is equal to 24 units.
 - a. How do you know that the triangles are similar?
 - b. Name the pairs of corresponding sides and the pairs of corresponding angles. How are the corresponding sides related and how are the corresponding angles related? Why is this true?



2. The sketch below shows two triangles, $\triangle MNO$ and $\triangle PQR$.
 - a. How do you know that the triangles are similar?
 - b. Name the pairs of corresponding sides and the pairs of corresponding angles. How are the corresponding sides related and how are the corresponding angles related? Why is this true?



3. The sketch below shows two triangles, $\triangle XYZ$ and $\triangle HFG$.
- How do you know that the triangles are similar?
 - Name the pairs of corresponding sides and the pairs of corresponding angles. How are the corresponding sides related and how are the corresponding angles related? Why is this true?



4. The sketch below shows two triangles, $\triangle LMN$ and $\triangle FEG$.
- How do you know that the triangles are similar? Is there anything else you can say about the two triangles?
 - Name the pairs of corresponding sides and the pairs of corresponding angles. How are the corresponding sides related and how are the corresponding angles related? Why is this true?

