



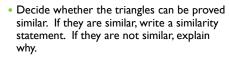
• Decide whether the triangles can be proved similar. If they are similar, write a similarity statement. If they are not similar, explain why.



Not similar.

We are only given an angle (A) and a side of congruence. This is not enough to determine if the triangles are similar.

Example.

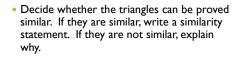




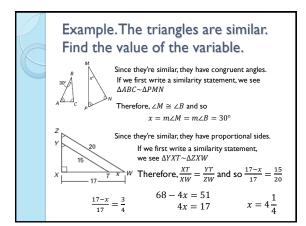
Yes, similar

 $\Delta LMN \sim \Delta HGD$

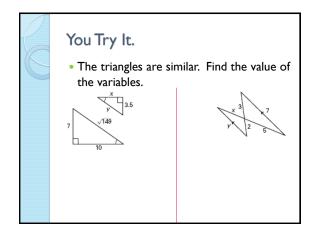
Example.



Yes, similar $\begin{array}{c} & & \\ & &$







Similarity Theorems

- SSS Similarity Theorem
 - If the lengths of the corresponding sides of two triangles are proportional, then the triangles are similar.
- SAS Similarity Theorem
 - If an angle of one triangle is congruent to an angle of a second triangle and the lengths of the sides including these angles are proportional, then the triangles are similar.

