## **6.4** Prove Triangles Similar by SSS and SAS







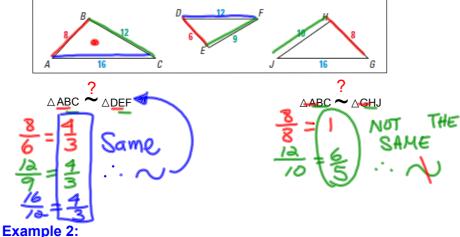
You used the AA Similarity Postulate to prove triangles similar. You will use the SSS and SAS Similarity Theorems. So you can show that triangles are similar, as in Ex. 28.

# SSS (Side-Side) Similarity Theorem

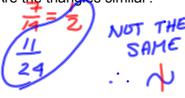
If the three of one triangle are proportional to the three \_ of another triangle, then the triangles are

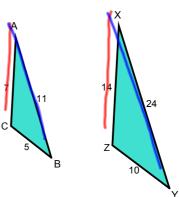
#### **EXAMPLE 1:**

Is either  $\triangle DEF$  or  $\triangle GHJ$  similar to  $\triangle ABC$ ?



### Are the triangles similar?





### **Example 3:**

Find the value of x that makes  $\triangle$  ABC  $\sim$   $\triangle$ DEF?

