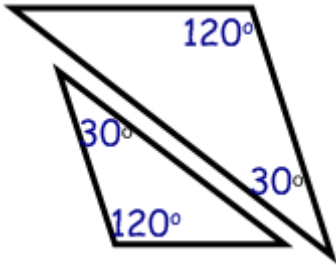


Similar Triangles

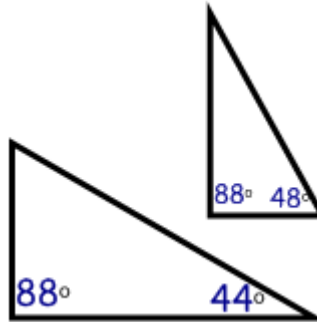
name _____ hr _____

Are the triangles similar? Explain how you know. If they are, finish the similarity statement.

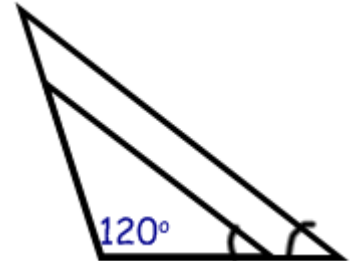
1.



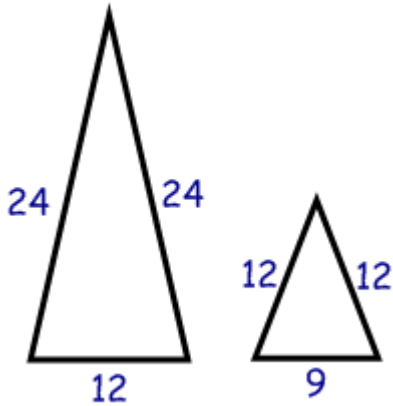
2.



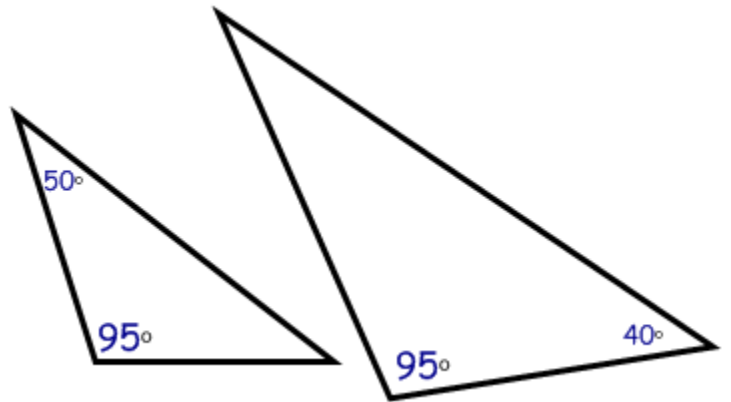
3.



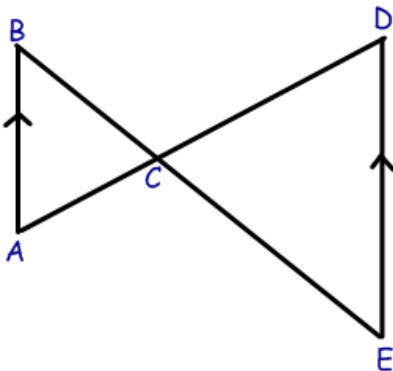
4.



5.



6.



a) How are \overline{AB} and \overline{ED} related?

b) Name an angle that is congruent to angle A. How do you know they are congruent?

c) Name an angle that is congruent to angle B. How do you know they are congruent?

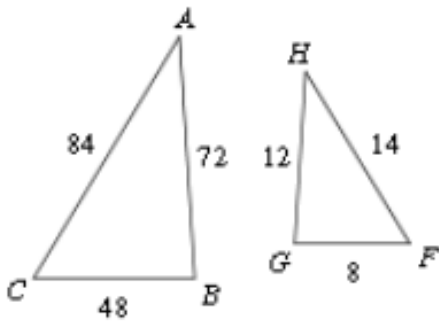
d) Are $\angle BCA$ and $\angle DCE$ congruent? How do you know?

e) Are the two triangles congruent?

7. The similarity rule states that you can tell if two triangles are similar if all three corresponding angles are congruent. Explain why this may not really be necessary.

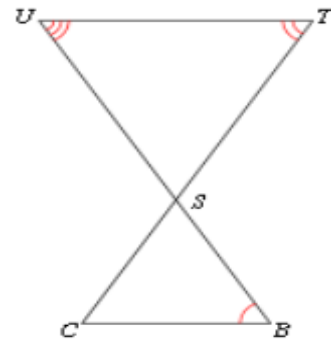
Are the triangles similar? Explain how you know. If they are, finish the similarity statement.

8.



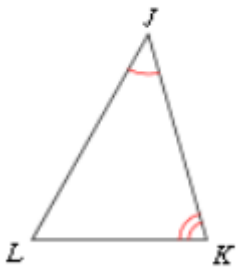
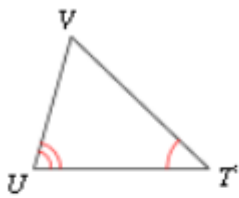
$\triangle CBA \sim \underline{\hspace{2cm}}$

9.



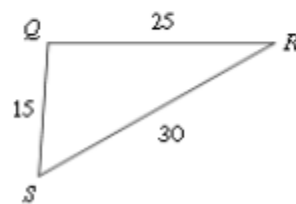
$\triangle STU \sim \underline{\hspace{2cm}}$

10.



$\triangle JKL \sim \underline{\hspace{2cm}}$

11.



$\triangle TUV \sim \underline{\hspace{2cm}}$