Geometry Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Formative Assessment: Similar Triangles Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_

1. Determine if the two triangles are similar. If so, state the similarity statement and state how

 you know they are similar (SSS~, SAS~, AA~). Justify your conclusions.



 (a) (b)

 i. Show work: i. Show work:

ii. Are the triangles similar? \_\_\_\_\_\_\_ ii. Are the triangles similar? \_\_\_\_\_\_\_

iii. **If yes**, then how? \_\_\_\_\_\_\_\_\_\_\_\_\_ iii. **If yes**, then how? \_\_\_\_\_\_\_\_\_\_\_\_\_

iv. **If yes**, then complete the similarity iv. **If yes**, then complete the similarity

 statement:  statement: 

 (c)

 ii. Are the triangles similar? \_\_\_\_\_\_\_

 iii. **If yes**, then how? \_\_\_\_\_\_\_

 iv. **If yes**, then complete the similarity

 statement: 

 i. Show work:

2. The triangles below are similar, solve for x. Work must be shown for full credit.

 (a)  x = \_\_\_\_\_\_\_\_ (b)  x = \_\_\_\_\_\_\_\_





 (c) x = \_\_\_\_\_\_\_

 

3. Given: , *RS*= 8, *SP*= 12, and *RT*= 4. What is the measure of segment TQ?

Show your work to defend your answer:

 TQ = \_\_\_\_\_\_\_\_\_\_\_\_\_