*The 3 ways to prove similar	triangles are:,	, and
	<u>Examples</u>	

Decide if each pair of triangles is similar. If they are, write the correspondence in the first blank and the reason in the second blank. If they are NOT similar, write NS in the second blank.



## Geometry Chapter 11.2 Justifying Similar Triangles Worksheet 6

Determine whether each pair of triangles is similar. If the triangles are similar, justify your answer by using SSS, SAS, and AA. Make sure you have work to support your answer.





9. Ryan is 5 feet tall. His shadow is 9 feet long and the shadow of a building is 36 feet long. How tall is the building? Draw two similar triangles and then determine the height of the building.

10. ABCDE is similar to QRSTU The similarity ratio of ABCDE to QRSTU is	2 A 2
The scale factor of ABCDE to QRSTU is	$E_{3}$ $B_{3}$
Find the length of each side.	$D^4$ C
QU	2
QR	U
RS	15
ST	
Perimeter of ABCDE	1 5
Perimeter of QRSTU	
ratio of perimeter of ABCDE to perimeter of QRSTU	