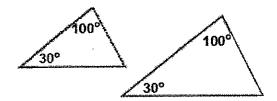
Triangle Similarity

Name:

Angle-Angle (AA) Similarity Postulate:

If 2 angles of 1 triangle are congruent to 2 angles of another triangle, then the 2 triangles are similar.



Side-Side-Side (SSS) Similarity Theorem:

If the lengths of the corresponding sides of 2 triangles are proportional, then the triangles are similar.

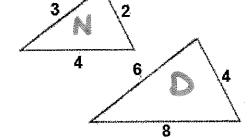
Shortest side:

Middle side:

Longest side:







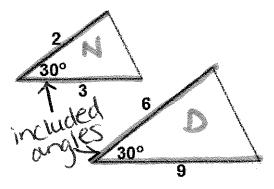
Side-Angle-Side (SAS) Similarity Theorem:

If an angle of 1 triangle is congruent to an angle of a 2nd triangle and the lengths of the sides including these angles are proportional, then the triangles are similar.

Shortest side:

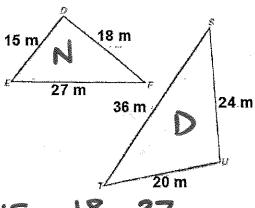
Longest side:



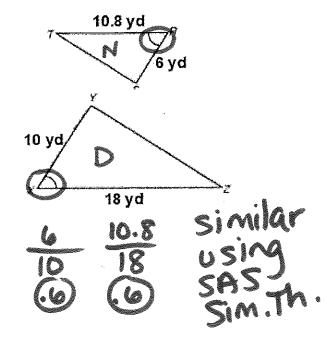


Determine if the following triangles are similar. Justify your answer.

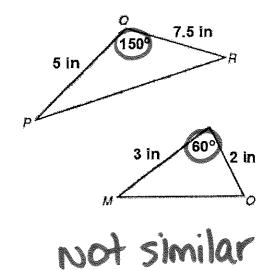
1.



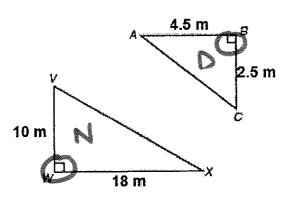
15 18 27 20 24 36 30 (3) (3) Similar USING SSS Sim.Th 2.



3.

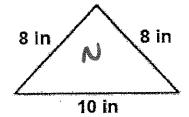


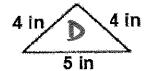
4.



10 2.5 4.5 (4) (4) Similar using SAS Sim: Th

5.





8 8 10 3 (2) Smilar using 6.

