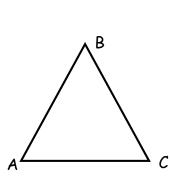
Geometry/Trig 2	Name:
7.4 - 7.5 Proving Similar Triangles Notes	Date:
To prove polygons are similar we can use two pies. 1. corresponding angles are 2. corresponding sides have the same However, when dealing with triangles, specifical	, and /scale factor.
AA Similarity Postulate If two of one triangle are contriangle, then the two triangles are	
Ex. If B C D F	\cong , then Δ ~ Δ
Ex: One right triangle has an angle with measur with measure 53°. Are the two triangles similar	
SAS Similarity Theorem:	
If an angle of one triangle is congruent to an including those angles are in If: and=	angle of another triangle and the, then the triangles are
then: Δ ~ Δ	$A \longrightarrow C$

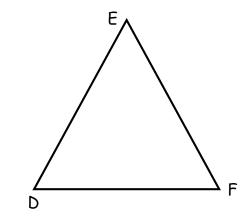
555 S	imilarity	Theorem
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If the ______ of two triangles are in _____, then the triangles are

If:

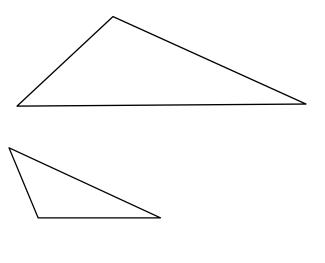
Then: Δ _____ ~ Δ _____



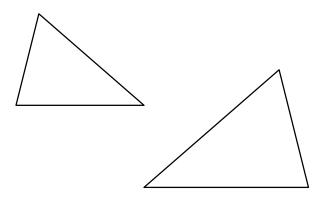


Can the two triangles shown be proved similar? If so, state the similarity and tell which postulate or theorem is used.

1.



2.



Similarity Statement:

Reason: _____

Similarity Statement:

Reason:

4.
Similarity Statement:
Reason:
6.
Similarity Statement:
Reason:

