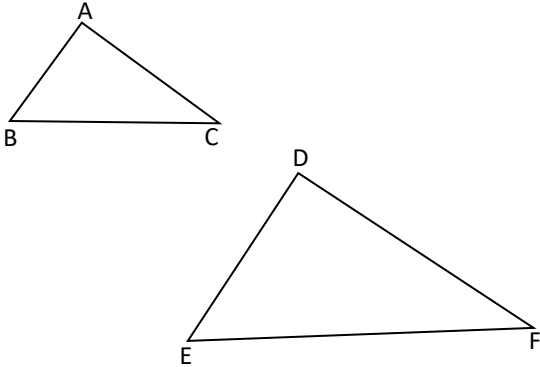
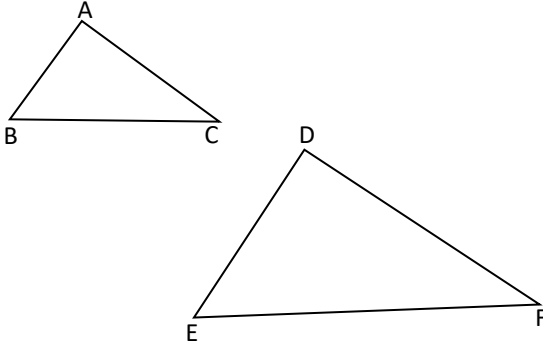
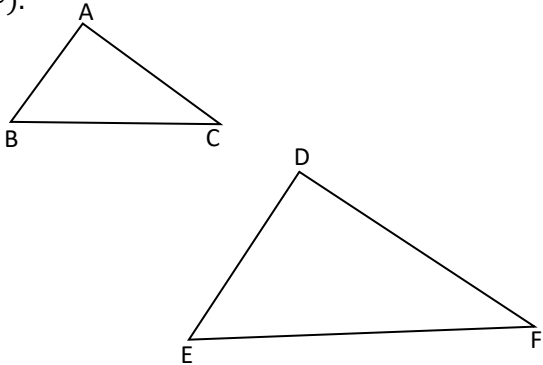


Lesson Ch7 D3: Similar Triangles

Recall: Third Angles Thm:

3 Methods of proving Triangles Similar:

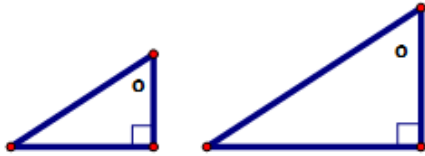
Angle- Angle Similarity Thm (AA~)	Side- Side- Side Similarity Thm (SSS~)	Side- Angle- Side Similarity Thm (SAS~)
<p>If 2 \sphericalangle's of a triangle are \cong to 2 corresponding \sphericalangle's of another triangle \rightarrow triangles are similar (\sim).</p> 	<p>If the 3 sides of a triangle are proportional to 3 corresponding sides of another triangle \rightarrow triangles are similar (\sim).</p> 	<p>If 2 sides of a triangle are proportional to 2 corresponding sides of another triangle & their included \sphericalangle's are $\cong \rightarrow$ triangles are similar (\sim).</p> 

Once we prove 2 triangles are similar...we can then state that _____ angles are congruent OR that _____ are proportional.

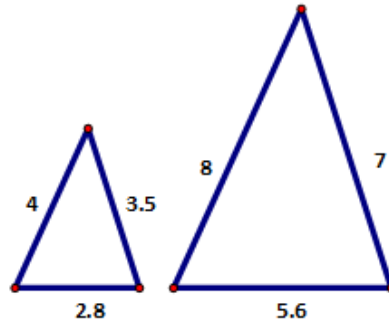
Practice Problems: (M.Patterson G.SRT.3 WS#2 geometrycommoncore.com)

1. For each of the following identify if the pair of triangles are similar and if so, name the criteria (AA~, SSS~, SAS~).

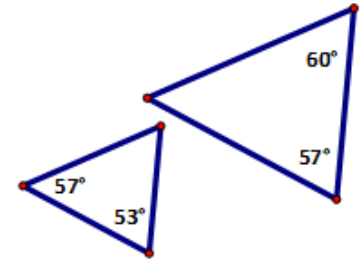
a) Yes / No _____



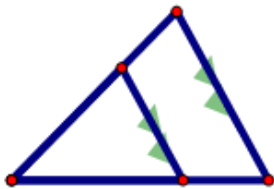
b) Yes / No _____



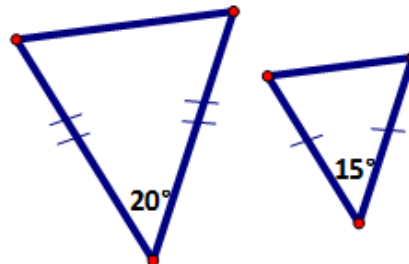
c) Yes / No _____



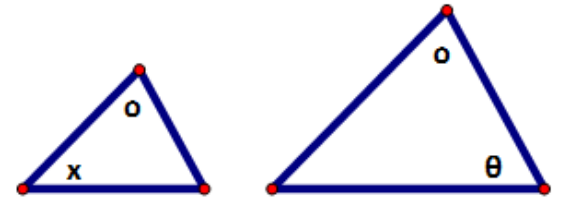
d) Yes / No _____



e) Yes / No _____

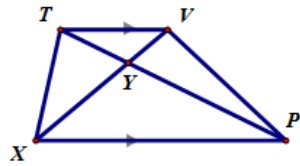


f) Yes / No _____



Practice Proofs:

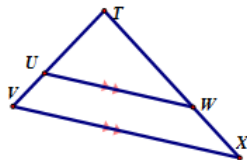
1 GIVEN: $\overline{TV} \parallel \overline{XP}$
 PROVE: $\triangle TVY \sim \triangle PXY$



STATEMENT	REASON
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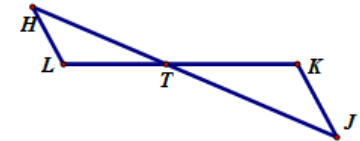
2 GIVEN:
 $\overline{UW} \parallel \overline{VX}$
 PROVE:
 $\triangle TUW \sim \triangle TVX$



STATEMENT	REASON
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3 GIVEN: $\frac{TH}{TJ} = \frac{TL}{TK}$
 PROVE: $\overline{HL} \parallel \overline{KJ}$



STATEMENT	REASON
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