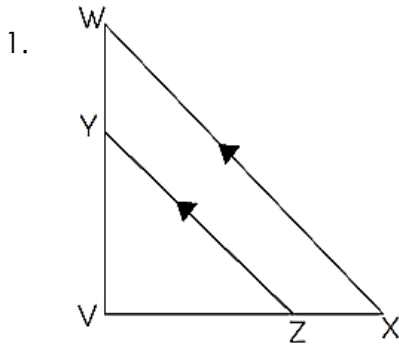Geometry
Triangle Similarity

Try these four problems – they walk you through how to solve them!
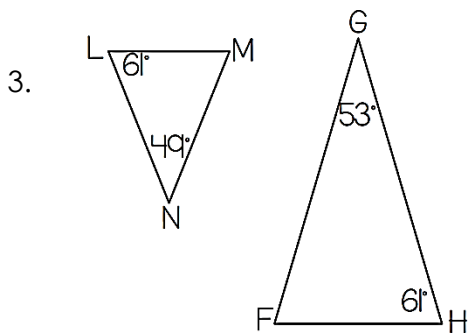Are these triangles similar?  If so, state the similarity statement.  If they are not similar, just write
"not similar."

1.



A.  Find any congruent angles.  Mark them.

{Since you have parallel lines, think of transversal

angle pairs like corresponding angles...}

B.  Now, are the triangles similar?   YES  or  NO

C.  If so, state how:  _____

D.  Δ VWX ~ Δ _____

2.
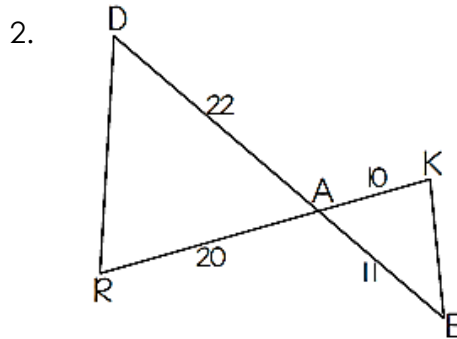


A.  Find any congruent angles.  Mark them.

B.  Are the sides proportional?

Set up your ratios HERE:

C.  Now, are the triangles similar?   YES  or  NO

D.  If so, state how:  _____

E.  Δ RAD ~ Δ _____

3.
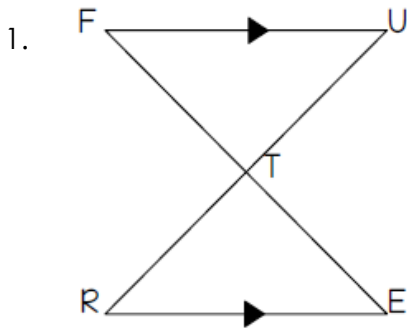


A. Can you find the missing angles?  Mark them.

B.  Are the triangles similar?   YES  or  NO

C.  If so, state how:  _____

D.  Δ LMN ~ Δ _____

4.
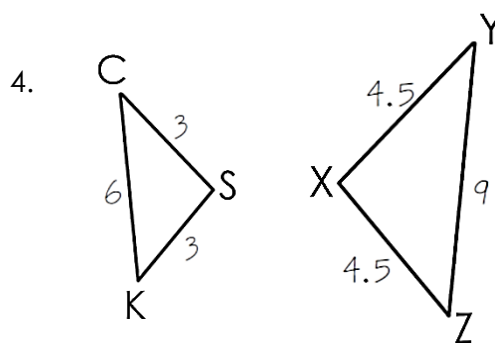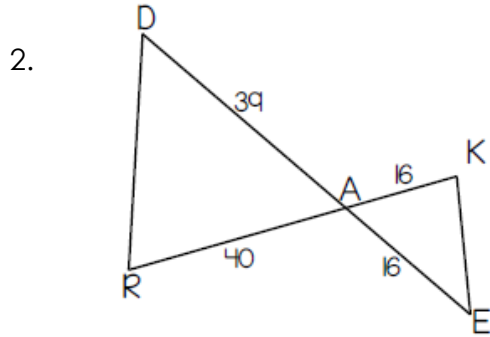


A.  Are the sides proportional?

Set up your ratios HERE:

B.  Are the triangles similar?   YES  or  NO

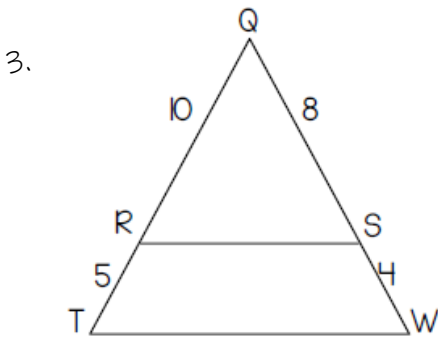C.  If so, state how:  _____

D.  Δ KCS ~ Δ _____

**CLASSWORK!** Remember – you need to SHOW WORK when you are figuring out if the sides of the two triangles are proportional. Also, make sure you mark any congruent angles if possible. If they are not similar, just write "not similar."
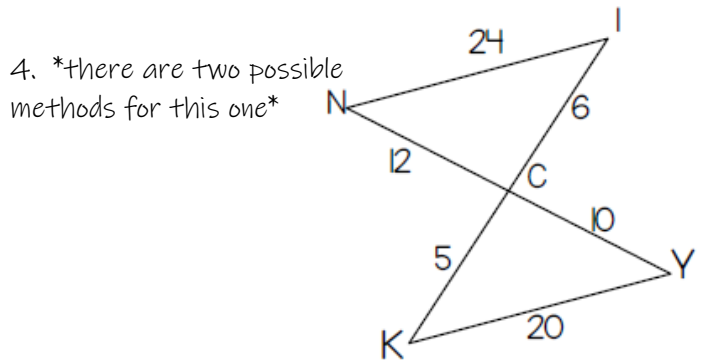
1.



A. Are these triangles similar? YES or NO

B. If so, state how: _____

C. Δ TRE ~ Δ _____

2.



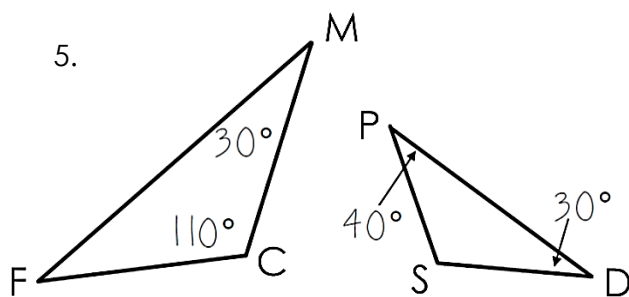A. Are these triangles similar? YES or NO

B. If so, state how: _____

C. Δ KEA ~ Δ _____

3.



A. Are these triangles similar? YES or NO

B. If so, state how: _____
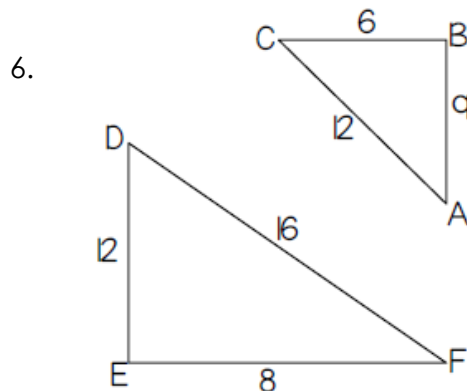
C. Δ TQW ~ Δ _____

4. *there are two possible methods for this one*



A. Are these triangles similar? YES or NO

B. If so, state how: _____

C. Δ ICN ~ Δ _____

5.



A. Are these triangles similar? YES or NO

B. If so, state how: _____

C. Δ SPD ~ Δ _____

6.



A. Are these triangles similar? YES or NO

B. If so, state how: _____

C. Δ EDF ~ Δ _____