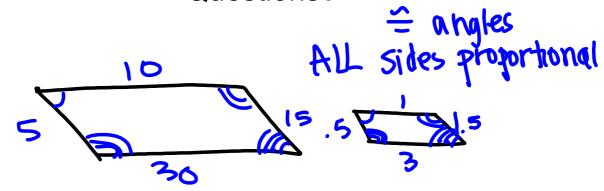


due tomorrow 10.2 Similar Polygons ws Questions?

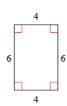


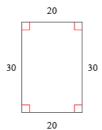
Secondary Math 2

10.2 Similar Polygons

State if the polygons are similar.

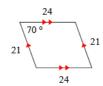






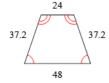
3)





5)





Name_

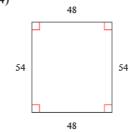
Date_____ Hour_

2)



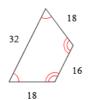


4)

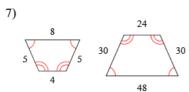


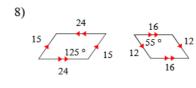


6)

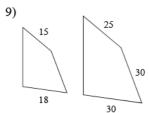


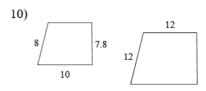


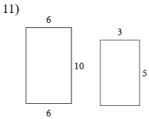


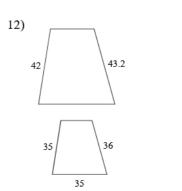


The polygons in each pair are similar. Find the scale factor of the smaller figure to the larger figure.

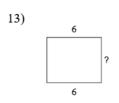


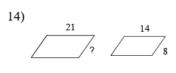


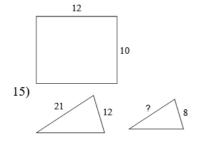


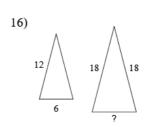


The polygons in each pair are similar. Find the missing side length.





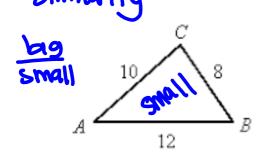


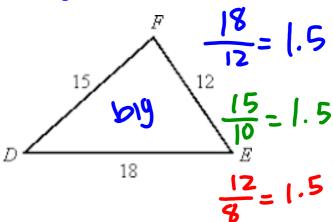


Similar Triangles...

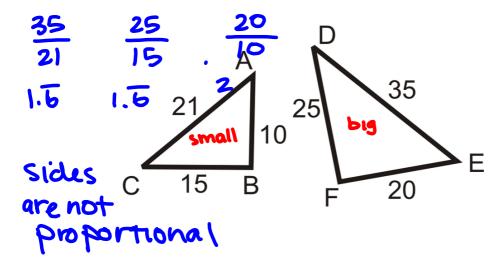
Proving Triangle Similarity

If 3 sets of corresponding sides are proportional, then the triangles are similar.



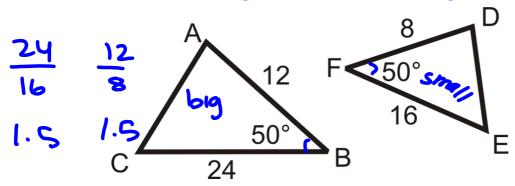


Are the triangles similar?

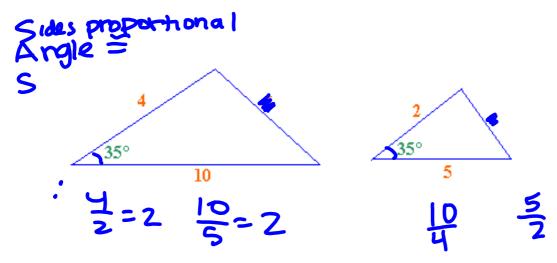


SAS Proving Triangle Similarity

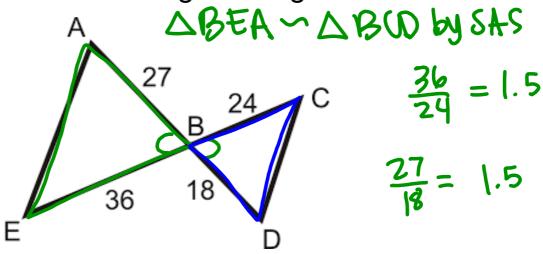
If 2 sets of corresponding sides are proportional, and the angle between them is congruent, then the triangles are similar.



Are the triangles congruent??



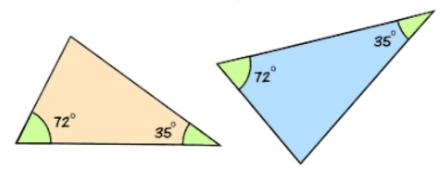
Are the triangles congruent?



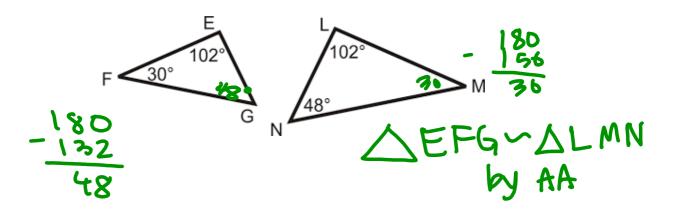


Proving Triangle Similarity

If two pairs of corresponding angles are congruent, then the triangles are similar.



Are the triangles similar?



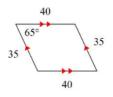
ACTIVITY

due Thursday

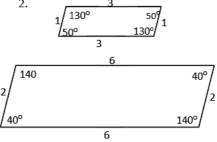
10.3 Triangle Similarity

Hour_

Review, state whether each of the following illustrates two similar figures. How do you know?



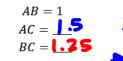




For questions 3 - 6, $\Delta PLU \sim \Delta ABC$.

Given a length for AB Find what the lengths of AC and BC would be.

3.



5. AB = 4

$$AC = \underline{}$$
 $BC = \underline{}$

6.

$$AB = x$$

$$AC = 1.5x$$

 $\Delta CAT \sim \Delta DOT$. Complete each statement.

∠*DTO* ≅ _____

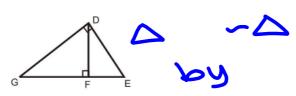
11.

12. ∠0 ≅ ____

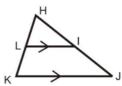
- 13. How does the SSS and SAS postulate for similar triangles differ from the SSS and SAS postulate for congruent triangles?
- 14. What is the AA postulate for similar triangles?

Are the following triangles similar? If so, write a similarity statement. If not, give your reasoning why.

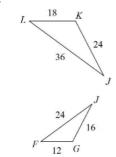
15.



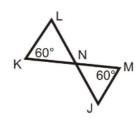
16.



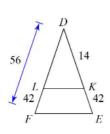
17.



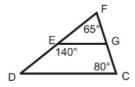
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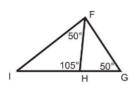
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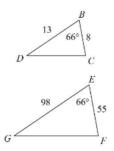
20.



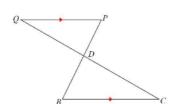
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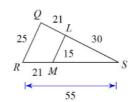
22.



23.

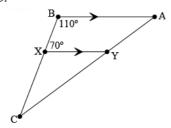


24.

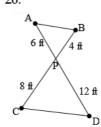


Determine whether each pair of triangles is similar or not. If they are similar right a similarity statement.

25.



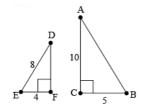
26.

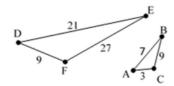


27.



28.





29. The shapes are similar. Find segment lengths for CB and EF, and find \boldsymbol{x} and \boldsymbol{y} .

