Ch 7.4 Similar Triangles using SSS and SAS

***Side - Side- Side Similarity Theorem (SSS)*** - If all corresponding sides are in proportion, then the 2 triangles are similar.

***Side - Angle- Side Similarity Theorem (SAS)*** - If two corresponding sides are in proportion along with and the included angle being congruent, then the two triangles are similar.

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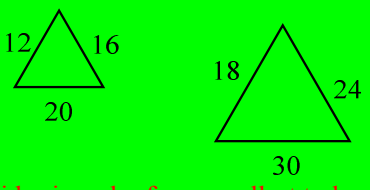
Determine if the triangles are similar. If so state the scale factor of the small:large.

Ex1a)




*list sides in order from smallest to largest

sm
lg

scale factor:

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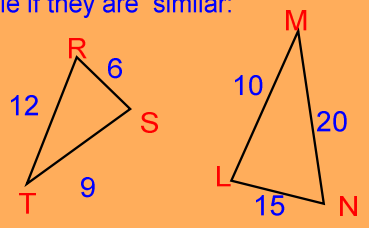
Ex 1b)Find the scale factor of the small to large triangle if they are similar:




sm △
lg △

scale factor:

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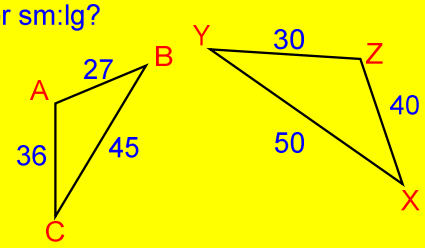
Try1) Are they similar? If yes, what is the scale factor for sm:lg?

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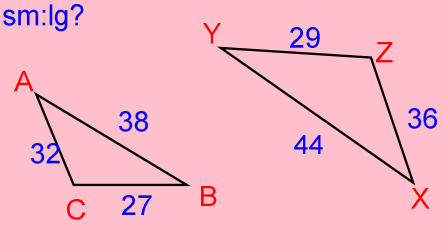
Try2) Are they similar? If yes, what is the scale factor sm:lg?

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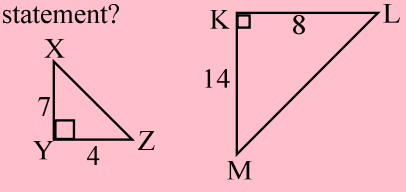
Ex2) Are they similar, if so write a similarity statement?




legs: sm
lg

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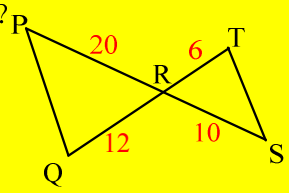
Ex2b) Are they similar if so write a similarity statement?

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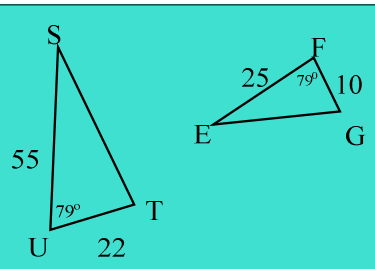
Try #3

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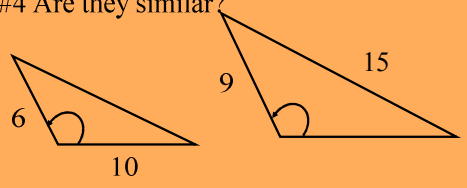
Try #4 Are they similar?

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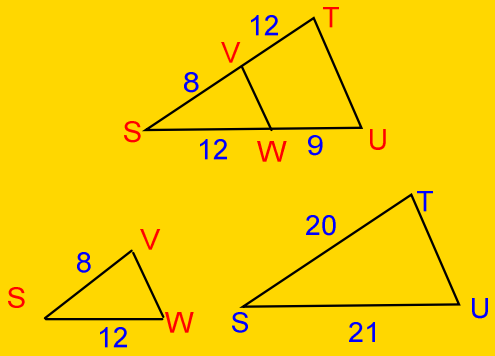
Ex3a) Determine if similar and state which theorem.

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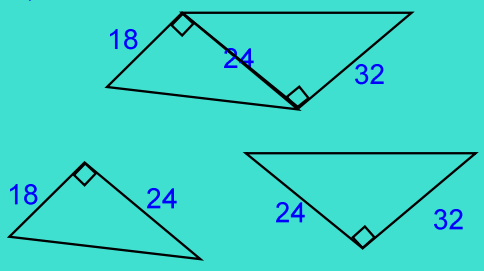
Ex3b).

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