For polygons to be similar, three things must be true. Look at the figures below to determine the first one.



Similar Figures

1) They are not similar because they are

two diff. shapes

Use the shapes below to figure out the next one. They have the same general shape, but what is different about them? Remember, you don't know side lengths, so don't focus on that.



2) They are not similar because the corresponding angles are not the same

Now, if we knew side lengths, how could you prove these are not similar mathematically.



3) Corresponding side lengths are not <u>**Pro Partionate**</u>



In order for two shapes to be considered similar, the following must be true ...

- 1. They have the same <u>Shape</u>
- 2. Corresponding angles are the same
- 3. Corresponding side lengths are proportionate.



Notes - Similar Figures.notebook

December 01, 2017



If we know the two figures are similar, how can we find x?



Show work here:



If we know the two figures are similar, how can we find x?



Show work here:

