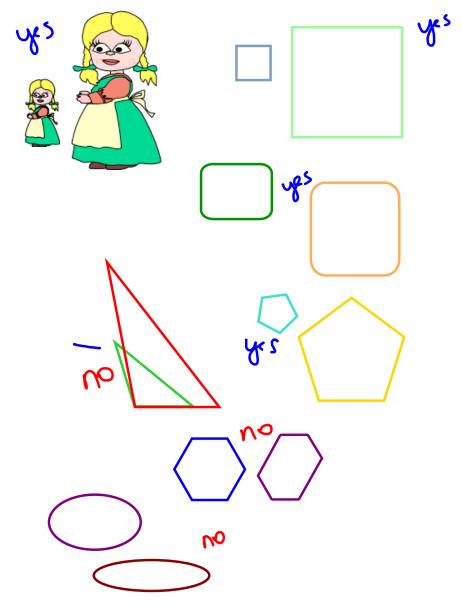
12.4 Similarity

What does it mean to be similar?

Similar or not?



True or False?

All squares are similar to each other.

All isosceles triangles are similar to each other.

All Pentagons with congruent angles are similar to each other.

true

false

fake

All rectangles are similar to each other.

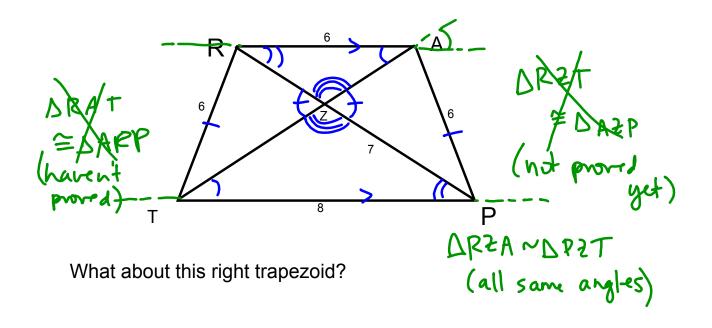
All isosceles trapezoids are similar to each other.

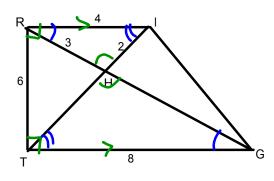
All regular hexagons are similar to each other.

All circles are similar to each other. folse

All rhombi are similar to each other.

Are there any similar triangles in this Isosceles trapezoid?





 $\Delta R I H \sim \Delta G T H$

Similarity Theorems

AA: (angle angle) two corresponding angles are = , then Ds are similar
SSS: (Side, side, side) all 3 corresponding the 2 Ds are proportional w/ same scaling factor
SAS (side, angle, side w/ angle included bet. 2 sides)

if 2 corresponding rides are proportional w/ same scaling factor and the included angles are =.

