

Size change transformation =

Expansion or Contraction?
 scale factor = $\frac{2}{3}$
 scale factor = $\frac{3}{2}$
 scale factor = -3

A 4-foot segment is dilated so that the new image is 1-foot.
 What scale factor was used?

What scale factor was used to make the red star?

How long is CB'?

Mar 18-9:24 PM


Ways to prove that triangles are similar?

If polygons are similar, they the same __?__

Similarity Statements & Reasons

Mar 18-9:28 PM

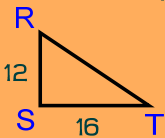
Proportions!

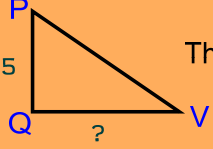


$$\frac{10}{45} = \frac{x}{72}$$

$$\frac{6}{x+3} = \frac{21}{5x+3}$$

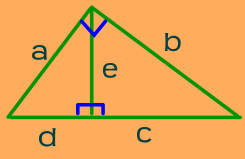
$$\frac{3x+1}{5} = \frac{x}{2}$$





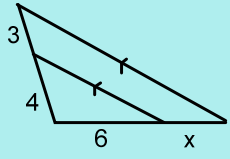
These are similar triangles.

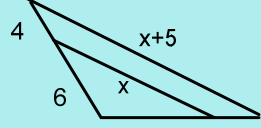
What is the length of QV?




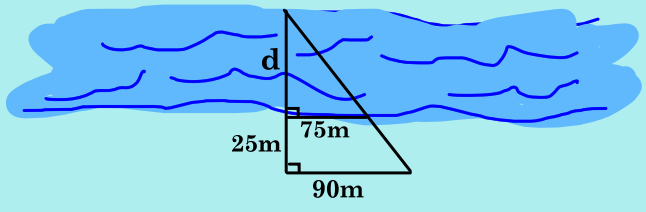
$$\frac{a}{b} = \frac{d}{e} = \frac{e}{c}$$

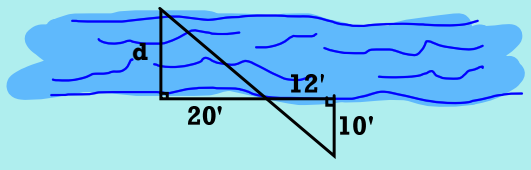
Mar 18-9:43 PM



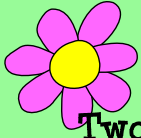








Mar 18-9:55 PM



Two squares have sides that are in the ratio of 4:5.

What is the ratio of their perimeters?

What is the ratio of their areas?

What is the ratio of their diagonals?

I have two square rooms in my house.

One is 12' x 12'; the other is 15' x 15'.

It costs me \$200 to carpet the smaller room.

How much will it cost me to carpet the larger room?

Mar 18-10:05 PM