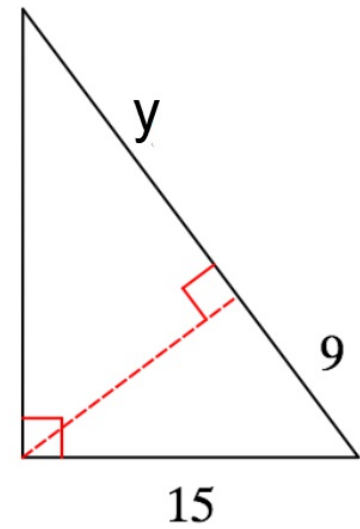
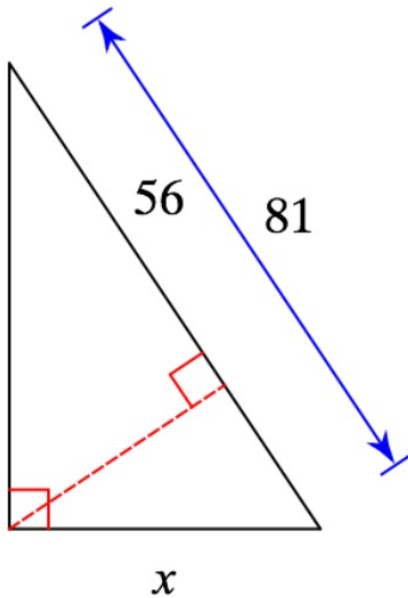
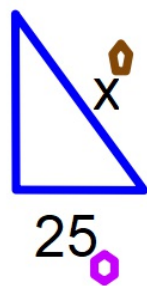
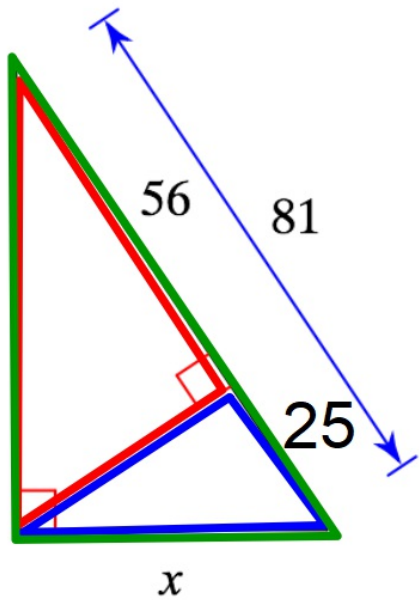


Good afternoon

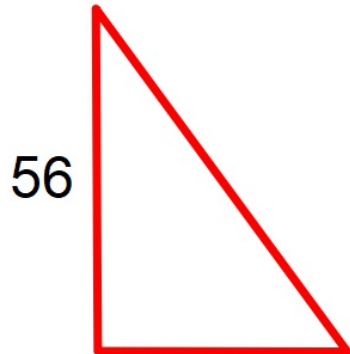
Warm up in notes: find the values of x and y .



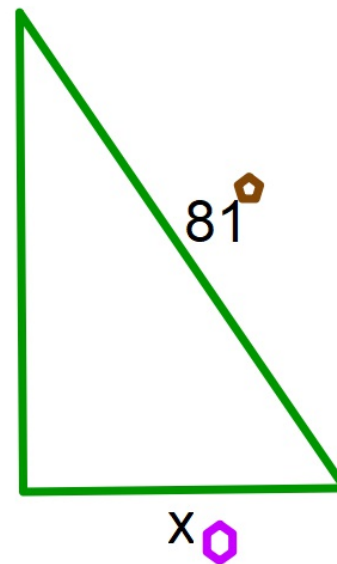
Reminder: second q3 assess tomorrow



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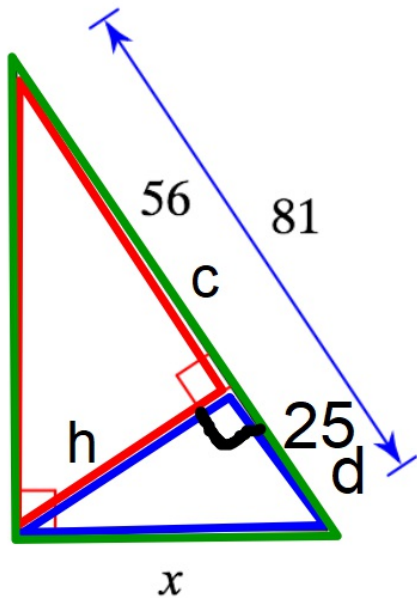


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$$\frac{25}{x} = \frac{x}{81}$$

$$x^2 = 2025 \rightarrow x = 45$$



Alt approach:

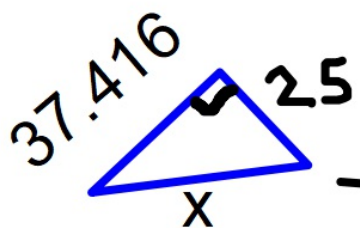
Geometric Mean formula

$$h = \sqrt{c \cdot d}$$

$$h = \sqrt{56 \cdot 25}$$

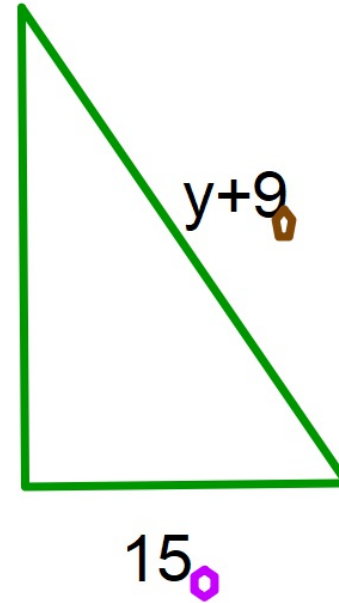
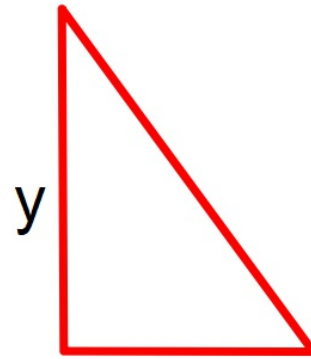
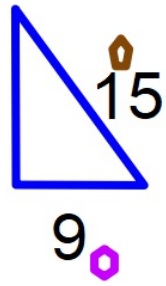
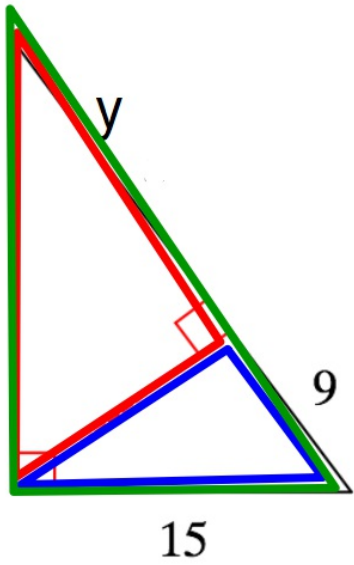
$$h = \sqrt{1400}$$

$$h \approx 37.416$$



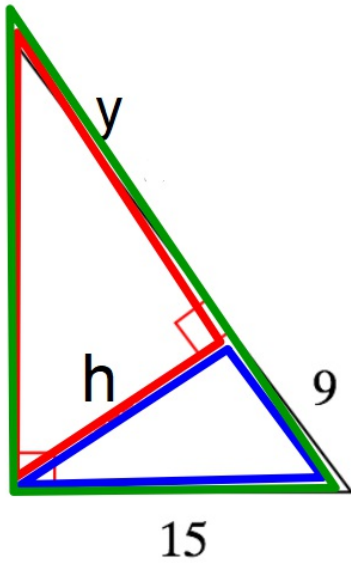
NOW USE

Pythagorean theorem to find x



$$\frac{15}{9} = \frac{y+9}{15}$$

$$\begin{aligned} 225 &= 9(y+9) \\ 225 &= 9y + 81 \\ 144 &= 9y \\ 16 &= y \end{aligned}$$



Alt method:

use pythagorean theorem with the blue triangle
to find that $h=12$

then do geometric mean

$$h = \sqrt{c \cdot d}$$

$$12 = \sqrt{9y}$$

square both sides

$$144 = 9y$$

$$16 = y$$

What will be on tomorrow's assessment?

NEW

~~SRT-B4c: Pythagorean Theorem and Converse~~

SRT-B5d: Geometric Mean/Sim Right Triangles

p280 9af

OLD

SRT-A3a: Similar Triangle Criteria

SRT-B4a: Proportionality within triangles



HW:
study for assessment
resources at mgeo.weebly.com