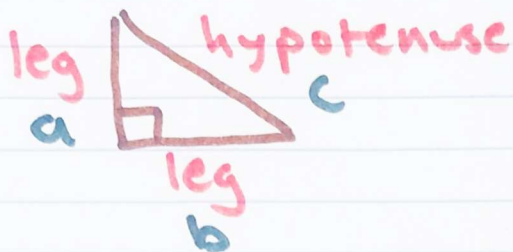


TOPIC 12-2 → Finding Triangle Legs

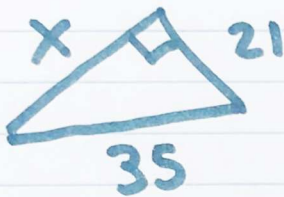
Remember! When using the Pythagorean Theorem

- it only works with right triangles
- the hypotenuse is opposite the right angle
- the hypotenuse is the longest side



$$a^2 + b^2 = c^2$$

Find the length of the missing leg.



$$a^2 + b^2 = c^2$$

$$x^2 + 21^2 = 35^2$$

$$\begin{array}{r} x^2 + 441 = 1,225 \\ -441 \quad -441 \end{array}$$

$$x^2 = 784$$

$$\sqrt{x^2} = \sqrt{784}$$

$$x = 28$$

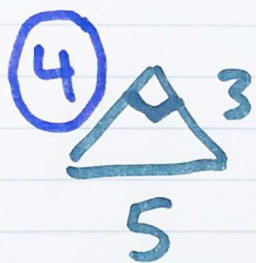
Did you see the Famous Triangle?



Scale Factor of $\frac{1}{7}$



A Famous Δ !



Convert back \rightarrow times 7

