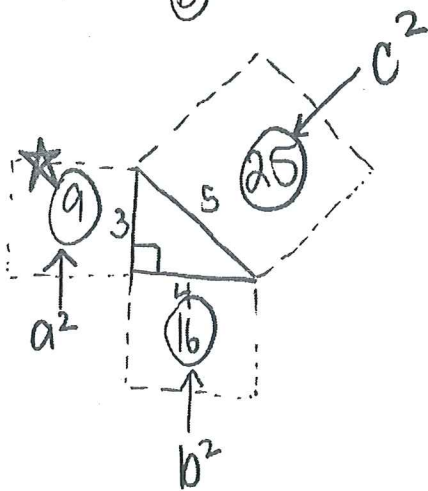
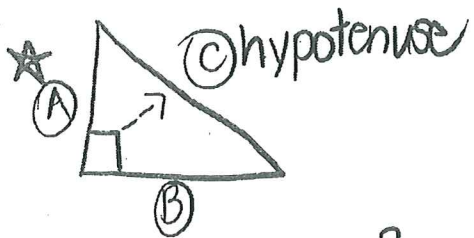


UOL2: Pythagorean Theorem

October-01-14 8:28 AM

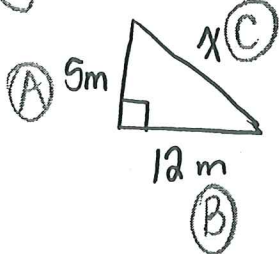
Oct. 1, 2014

★ Formula: $A^2 + B^2 = C^2$ OR $C^2 - B^2 = A^2$
 $C^2 - A^2 = B^2$



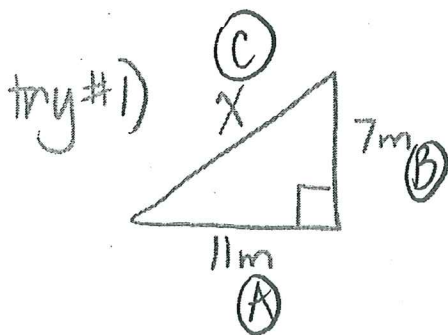
⇒ Carpenter's triangle PROOF 😊

eg 1) Find x:



- Steps:
- ✓ label A, B, C
 - ✓ write formula
 - ✓ substitute & solve

$$\begin{aligned} a^2 + b^2 &= c^2 \\ 5^2 + 12^2 &= c^2 \\ 25 + 144 &= c^2 \\ \sqrt{169} &= \sqrt{c^2} \\ 13m &= c \end{aligned}$$



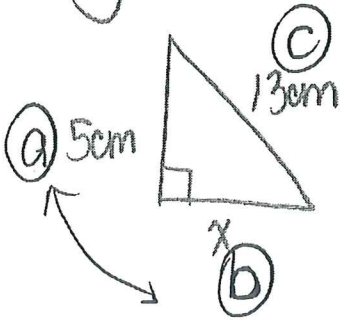
$$\begin{aligned} a^2 + b^2 &= c^2 \\ 11^2 + 7^2 &= c^2 \\ 121 + 49 &= c^2 \\ \sqrt{170} &= \sqrt{c^2} \end{aligned}$$

11m
ⓐ

$$\sqrt{170} = c$$

$$\boxed{13.03 = c} \text{ OR } \boxed{13 = c} \checkmark$$

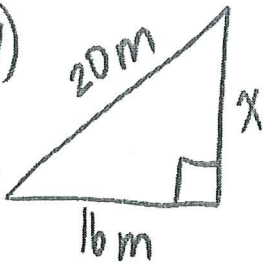
eg 2) Finding x (but x is A or B).



$$c^2 - a^2 = b^2$$
$$13^2 - 5^2 = b^2$$
$$169 - 25 = b^2$$

$$\sqrt{144} = \sqrt{b^2}$$
$$\boxed{12 = b} \checkmark$$

try #1)



$$\boxed{x = 12m} \checkmark$$

Assignment:

#1-4 (find c)

#8-11 (find a or b)

BONUS: ② of them