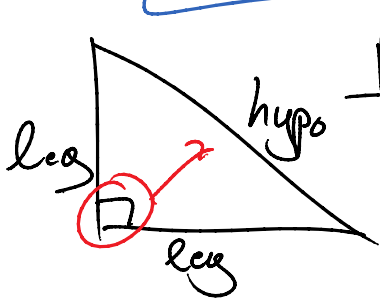


9.4

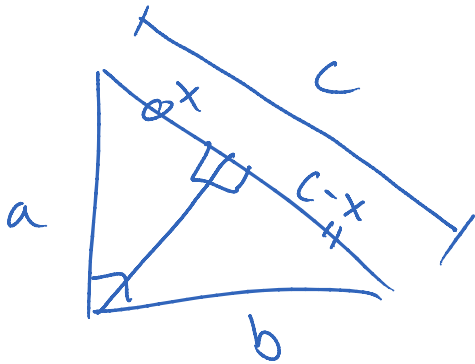


Pythagorean Thm

$leg^2 + leg^2 = \underline{hypo}^2$  - Right

$short^2 + short^2 < longest^2$  obtuse

$short^2 + short^2 > longest^2$  acute

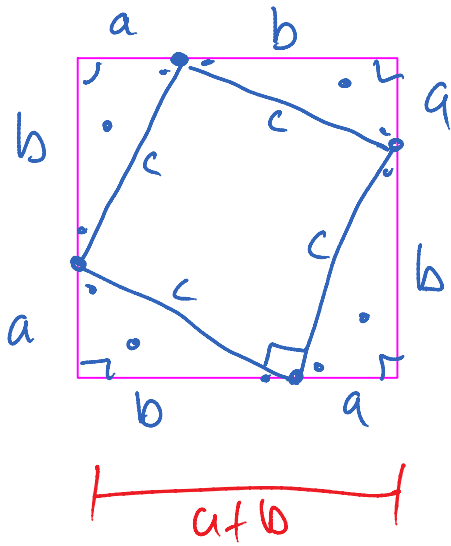


$a^2 = x \cdot c$

$b^2 = c(c-x)$   
 $= c^2 - cx$

$a^2 + b^2 = \cancel{x \cdot c} + c^2 - \cancel{cx}$

$a+b$



$A_B = (a+b)(a+b) = c^2 + 2ab + b^2$

$A_B = 4 \Delta's + A_s$

$= 4(\frac{1}{2} a \cdot b) + c^2$

$= 2ab + c^2$

$c^2 + \cancel{2ab} + b^2 = \cancel{2ab} + c^2$