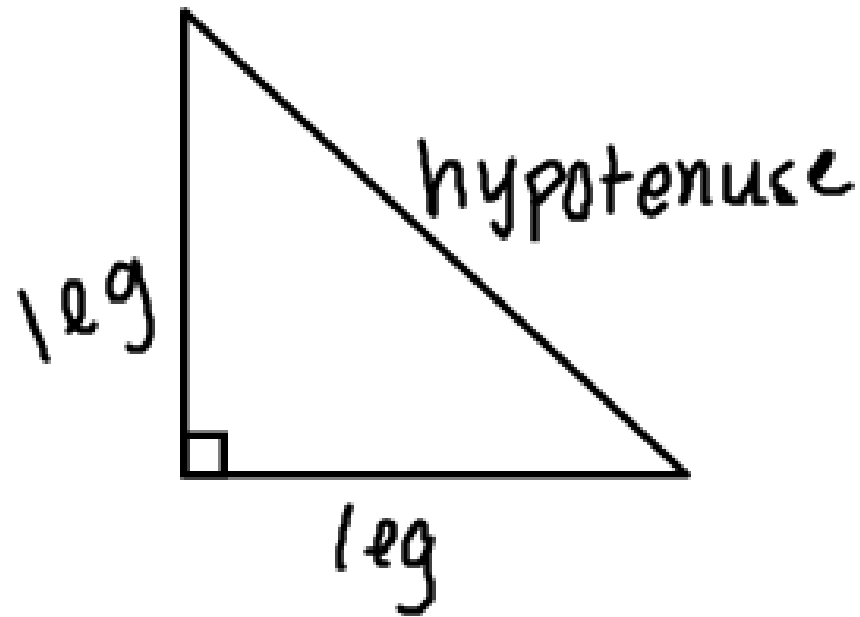


11 - 4

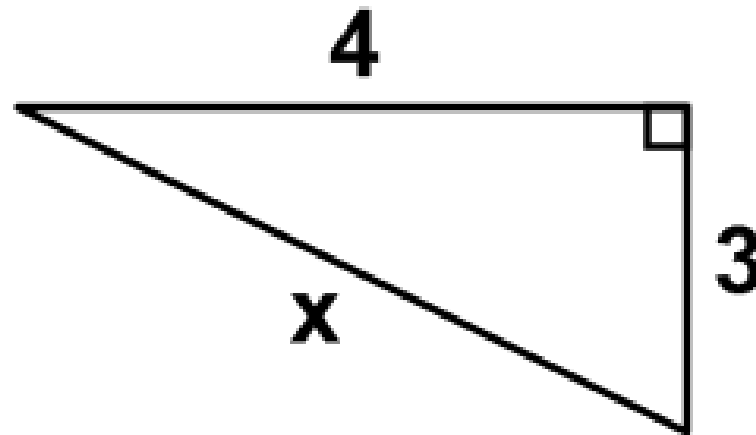
Pythagorean Theorem



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

a, b : legs c : hypotenuse

Ex: Solve for x.



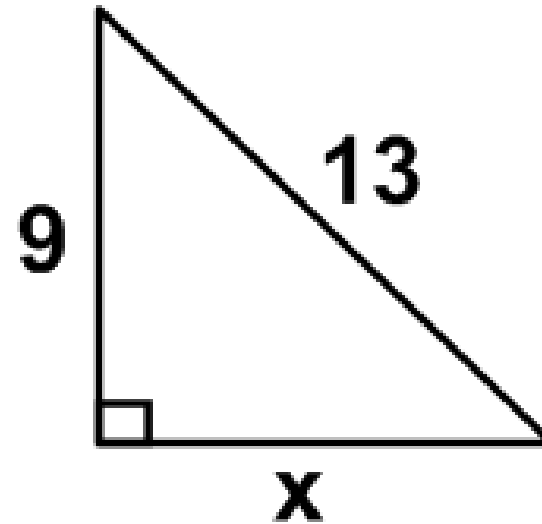
$$3^2 + 4^2 = x^2$$

$$9 + 16 = x^2$$

$$\sqrt{25} = \sqrt{x^2}$$

$$5 = x$$

Ex: Solve for x.



$$9^2 + x^2 = 13^2$$

$$\begin{array}{r} 81 + x^2 = 169 \\ -81 \quad -81 \end{array}$$

$$x^2 = 88$$

$$x = 9.38$$



Homework:

p.608 #14 - 36 even