

Alg1

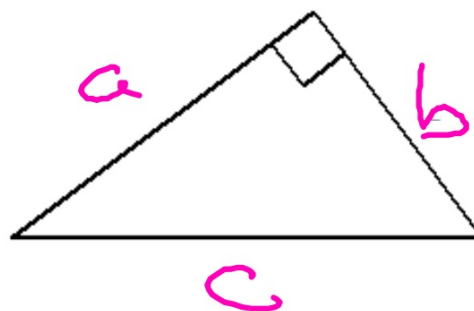
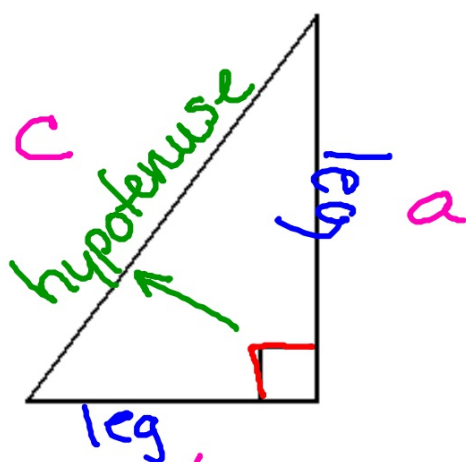
May 3, 2012

Get out yesterday's worksheet

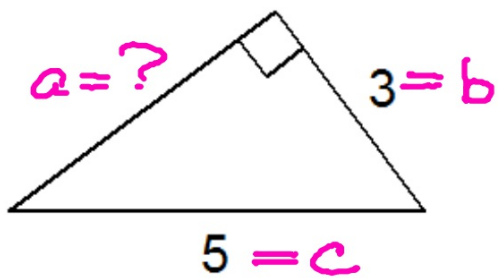
$$\begin{aligned} & \sqrt{32} \\ & \quad 4 \cdot 8 \\ & = 2\sqrt{8} \\ & \quad 4 \cdot 2 \\ & = 2 \cdot 2\sqrt{2} \\ & \quad 4\sqrt{2} \end{aligned}$$



5/3 - Pythagorean Theorem



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



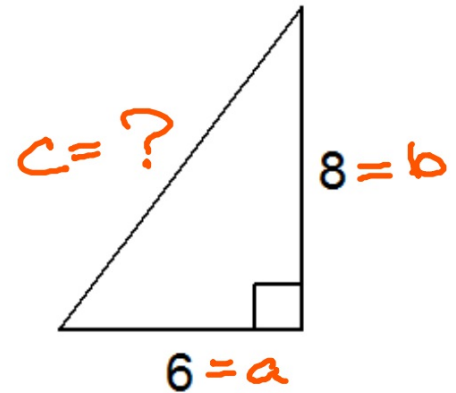
$$a^2 + b^2 = c^2$$

$$a^2 + 3^2 = 5^2$$

$$a^2 + 9 = 25$$

$$\sqrt{a^2} = \sqrt{16}$$

$$a = 4$$



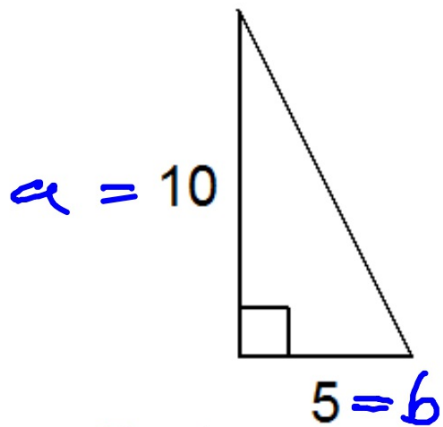
$$a^2 + b^2 = c^2$$

$$6^2 + 8^2 = c^2$$

$$36 + 64 = c^2$$

$$\sqrt{100} = \sqrt{c^2}$$

$$10 = c$$



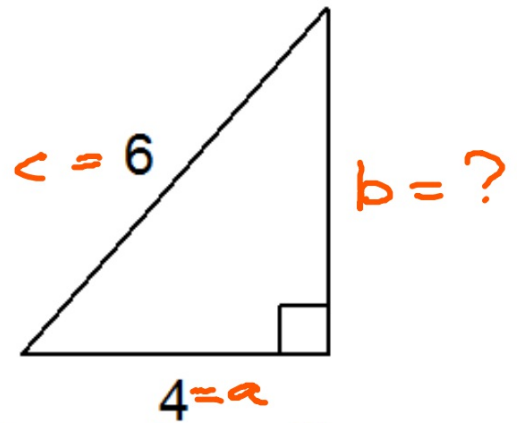
$$a^2 + b^2 = c^2$$

$$10^2 + 5^2 = c^2$$

$$100 + 25 = c^2$$

$$\sqrt{125} = \sqrt{c^2}$$

$$5\sqrt{5} = c$$



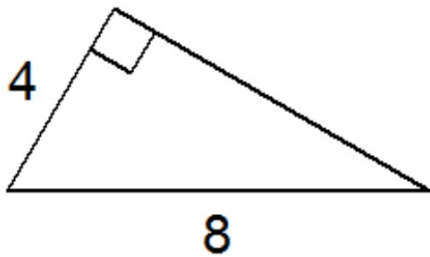
$$a^2 + b^2 = c^2$$

$$4^2 + b^2 = 6^2$$

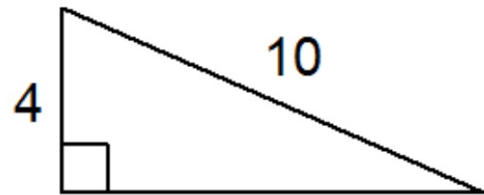
$$16 + b^2 = 36$$

$$\begin{array}{r} -16 \\ \sqrt{b^2} = \sqrt{20} \end{array}$$

$$b = 2\sqrt{5}$$



$$\begin{aligned}
 4^2 + b^2 &= 8^2 \\
 16 + b^2 &= 64 \\
 -16 \quad -16 \\
 \hline
 \sqrt{b^2} &= \sqrt{48} \\
 &= 4 \cdot 12 \\
 b &= 2\sqrt{12} \\
 &= 4 \cdot 3 \\
 b &= 2 \cdot 2\sqrt{3} \\
 b &= 4\sqrt{3}
 \end{aligned}$$



$$\begin{aligned}
 4^2 + b^2 &= 10^2 \\
 16 + b^2 &= 100 \\
 -16 \quad -16 \\
 \hline
 \sqrt{b^2} &= \sqrt{84} \\
 &= 4 \cdot 21 \\
 b &= 2\sqrt{21}
 \end{aligned}$$

Homework

Flamingo

Pink *Miscellaneous WS4*

Due Monday