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Font

Paragraph

Styles

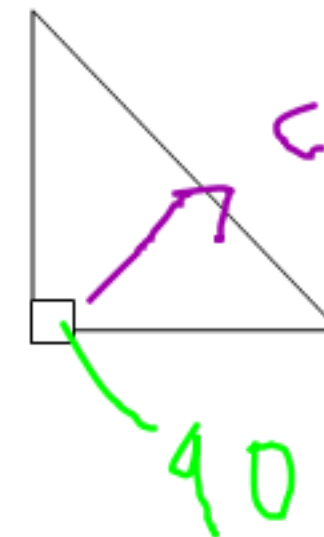
Editing

Pythagorean Theorem

Used on right triangles.
 $a^2 + b^2 = c^2$

Your hypotenuse is always across from 90°

Remember - Triangle angles always add up to 180 degrees.



(hypot)

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

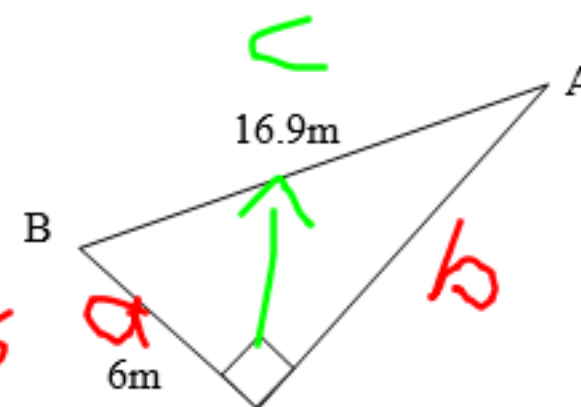
Solve for B

$$6^2 + b^2 = 16.9^2$$

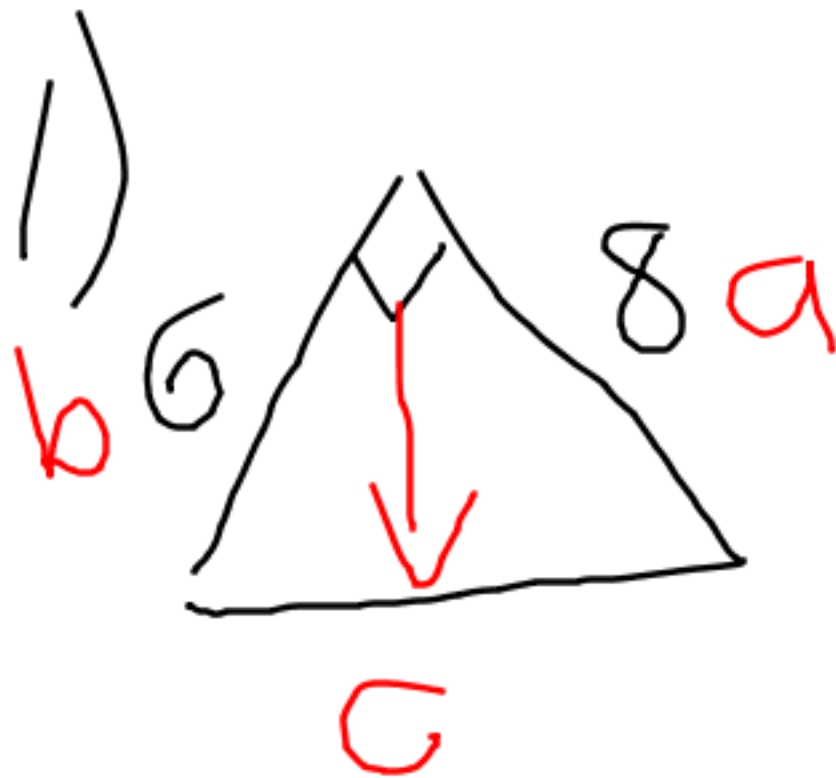
$$36 + b^2 = 285.6$$

$$\sqrt{b^2} = \sqrt{249.6}$$

$$b = 15.8 \text{ m}$$



Remember the biggest side corresponds with the biggest angle, and
 the smallest side corresponds with the smallest angle.



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

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

$$64 + 36 = c^2$$

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

$$10 = c$$

$$17) \quad a^2 + b^2 = c^2$$

$$\underline{1.4^2 + 4.8^2 = 5^2}$$

$$25 = 25$$

✓ Right
angle