M8 - 3.3 - Identifying "a, b, c" Notes



Identifying a, b, and c.



M8 - 3.3 - Pythagoras' Theorem Notes



 $\sqrt{25} = 5$

Solve for "c".



6 10 b $a^{2} + b^{2} = c^{2}$ $6^{2} + b^{2} = 10^{2}$ $36 + b^{2} = 100$ -36 - 36 $b^{2} = 64$ $\sqrt{b^{2}} = \sqrt{64}$ b = 8

smaller square equals other smaller square.

$$c^{2}-a^{2} = b^{2}$$

$$10^{2}-6^{2} = b^{2}$$

$$100-36 = b^{2}$$

$$64 = b^{2}$$

$$\sqrt{64} = \sqrt{b^{2}}$$

$$b = 8$$

$$b = \sqrt{c^{2}-a^{2}}$$

OR