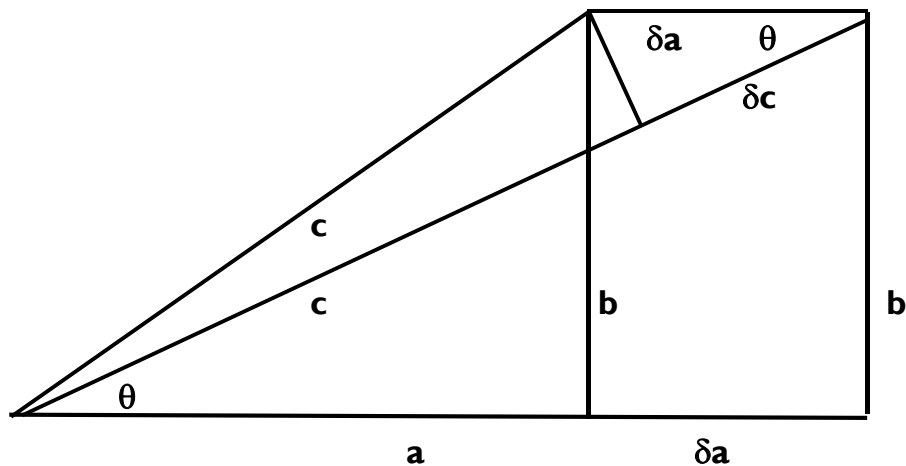


Proof of Pythagoras by Integration



$$\cos \theta = a/c$$

$$\cos \theta = \delta a / \delta c$$

$$\int c \, dc = \int a \, da$$

$$\frac{1}{2} c^2 = \frac{1}{2} a^2 + k$$

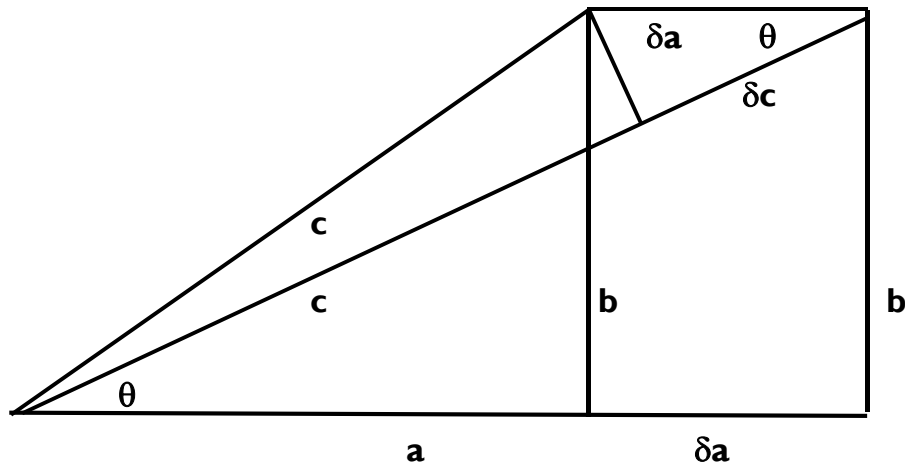
$$\text{at } a = 0 \, c = b$$

$$\text{therefore } 2k = b^2$$

$$\text{hence } c^2 = a^2 + b^2$$

✪ rg

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