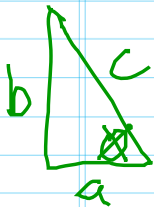


PROVE PYTH. IDENTITY

$$\cos^2 x + \sin^2 x = 1$$



$$\frac{a^2}{c^2} + \frac{b^2}{c^2} = \frac{c^2}{c^2}$$

$$\sin x = \frac{b}{c}$$

$$\cos x = \frac{a}{c}$$

$$\left(\frac{a}{c}\right)^2 + \left(\frac{b}{c}\right)^2 = 1$$

$$\cos^2 x + \sin^2 x = 1$$

$$\sin^2 x = 1 - \cos^2 x$$



$$\cos^2 x = 1 - \sin^2 x$$

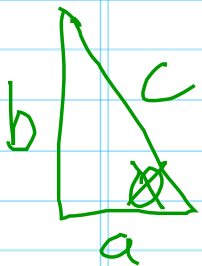
$$1 + \tan^2 x = \sec^2 x$$

$$\cot^2 x + 1 = \csc^2 x$$



PROVE PYTH IDENTITY

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