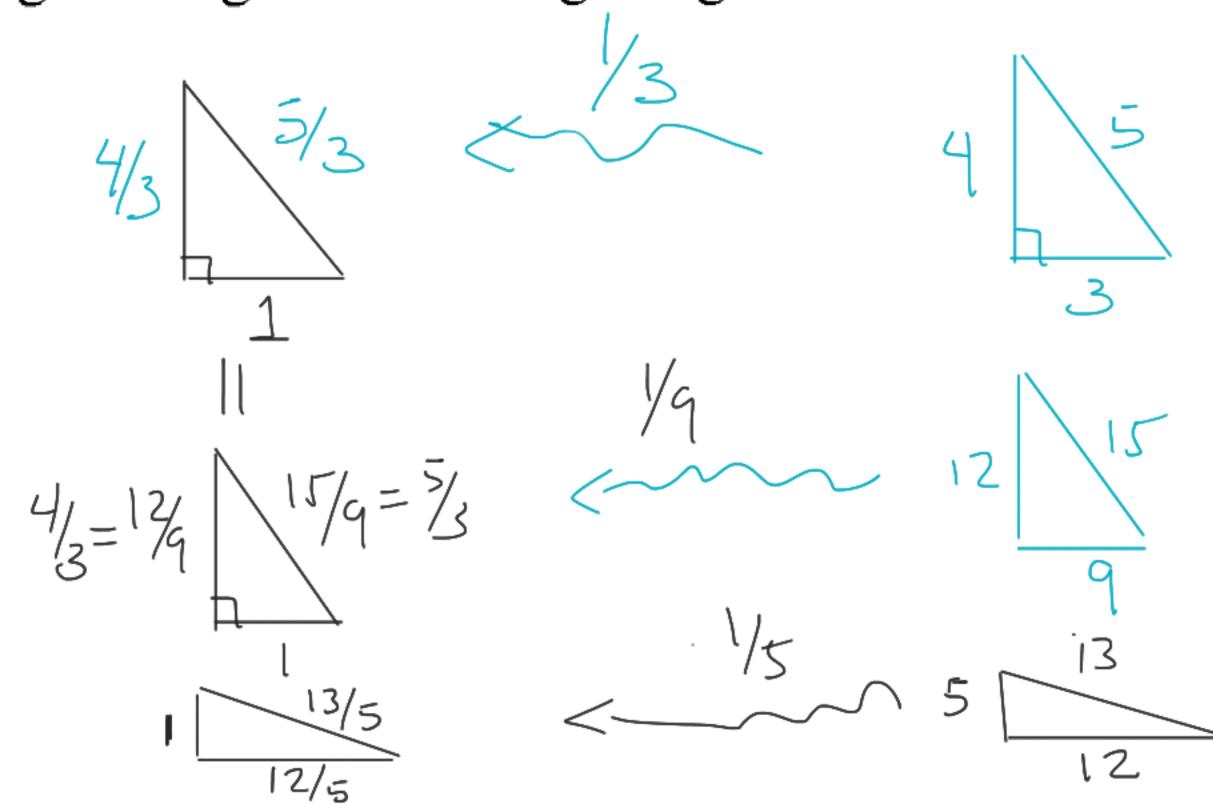
7. Using the technique from Exercise 6, start with a 3-4-5 triangle and find a right triangle with rational sides whose shorter leg is 1. Then find a right triangle whose longer leg is 1.

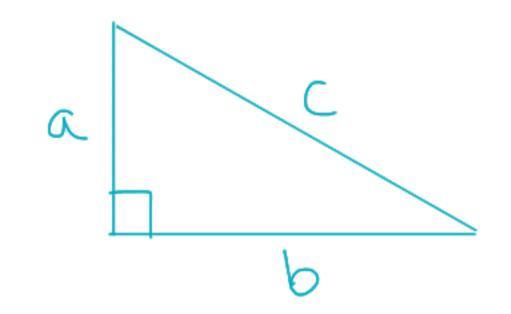


$$2^{2} + 2^{2} = 2^{2}$$

$$8 = 2^{2}$$

$$2 = 4 \cdot 2 = 4 \cdot 2 = 4 \cdot 2 = 2 \cdot 2$$

$$= 2 \cdot 2 \cdot 2$$



entonces atb=c2

$$\frac{1}{2} \qquad \frac{1}{2} \qquad \frac{1}$$

$$x = \sqrt{2x^2 - \sqrt{2}}$$

$$x^2 + x^2 = C^2$$

$$2x^2 - C^2$$

$$C = \sqrt{2x^2 - \sqrt{2}}$$

$$C = \sqrt{2x^2 - \sqrt{2}}$$

$$C = \sqrt{2x^2 - \sqrt{2}}$$

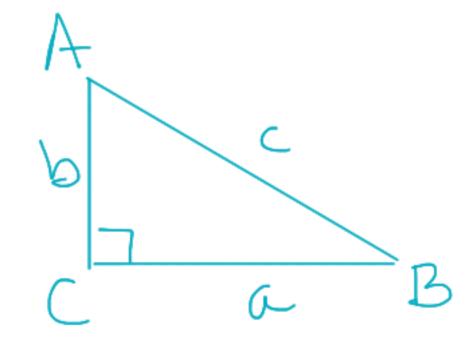
$$\chi = -3 \rightarrow \chi^2 = 9 \rightarrow \sqrt{\chi^2} = \sqrt{9} = 3 \pm \chi$$

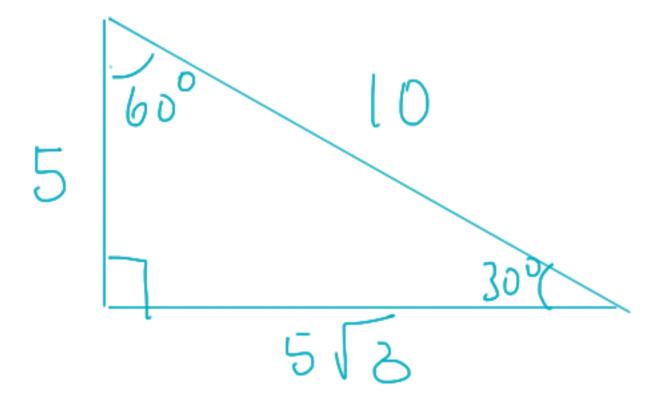
¿ Cuanto mide a?

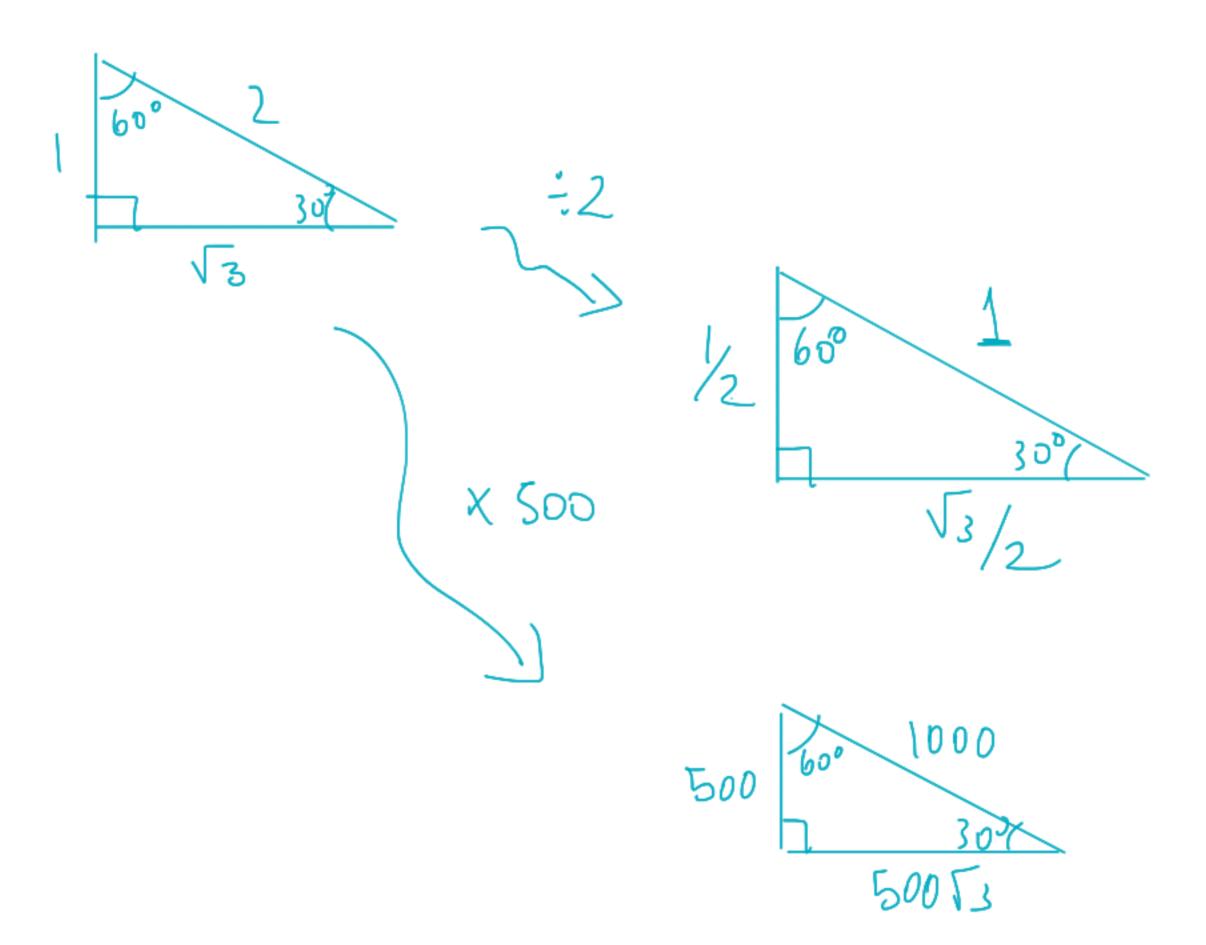
$$\alpha^{2} + 1 = 4$$

$$\alpha^{2} = 3$$

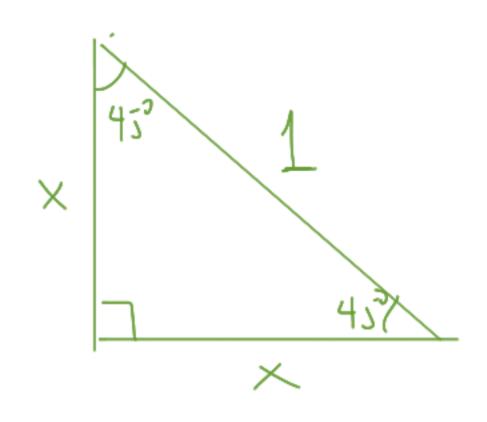
$$\alpha = \sqrt{3}$$







1. Find the length of each leg of an isosceles right triangle whose hypotenuse has length 1. Challenge: Find the length, correct to nine decimal places without using your calculator (but using information contained in the text above!).



$$X = \frac{1}{\sqrt{2}}$$

$$X = \frac{1}{\sqrt{2}}$$

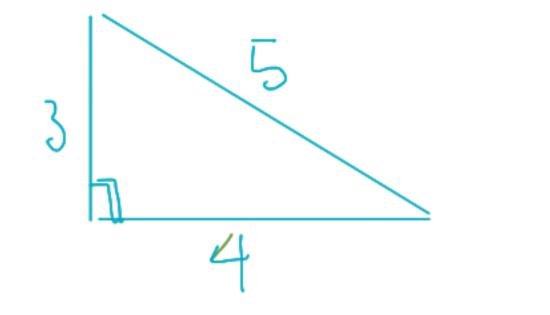
$$X = \frac{1}{\sqrt{2}}$$

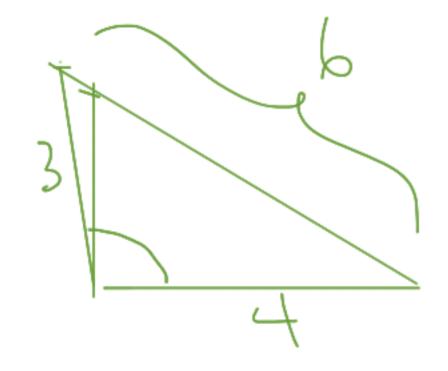
$$2X^{2} = 1$$

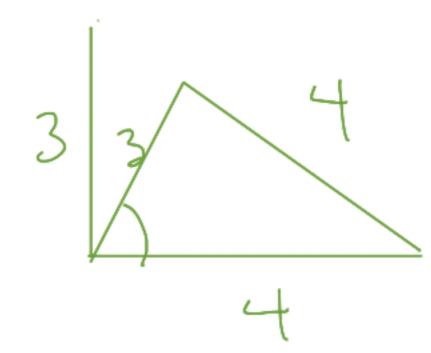
$$X = \frac{1}{\sqrt{2}}$$

$$X = \sqrt{\frac{1}{2}}$$

$$X = \sqrt{\frac{1}{2}}$$







no hay Dunlados
(3,4,8)
Remerda la de rign

Remerda la de rigualdad del transulo:

El lado mais grande mide menos que la suma de los otros dos