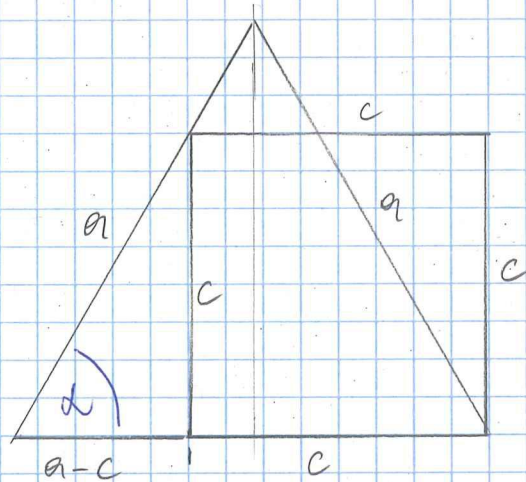


AQQ 2PP

12.3.26

$$\alpha = \frac{\pi}{3}$$



$$\left. \begin{array}{l} x \cdot \sin\left(\frac{\pi}{3}\right) = c \\ x \cdot \cos\left(\frac{\pi}{3}\right) = a - c \end{array} \right\} \tan\left(\frac{\pi}{3}\right) = \sqrt{3} = \frac{c}{a-c}$$

$$a \cdot \sqrt{3} = c + \sqrt{3} \cdot c = c(1 + \sqrt{3})$$

$$a = c \cdot \frac{(1 + \sqrt{3})}{\sqrt{3}}$$

Square: $A_{SQ} = c^2$

Triangle: $A_{TR} = \left(\frac{a}{2}\right) \cdot \underbrace{\sin\left(\frac{\pi}{3}\right)}_{\frac{\sqrt{3}}{2}} \cdot a \cdot \frac{1}{2} \cdot 2$

$$A_{TR} = a^2 \cdot \frac{\sqrt{3}}{4} = c^2 \cdot \frac{\sqrt{3}}{4} \cdot \left(\frac{1 + \sqrt{3}}{\sqrt{3}}\right)^2$$

$$A_{TR} = c^2 \cdot 1,07735$$

$$A_{TR} = A_{SQ} \cdot 1,07735$$