

Trigo a ; b ; c

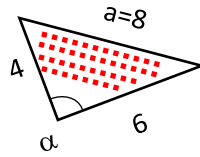
$$a^2 = b^2 + c^2 - 2bc(\cos\alpha)$$

$$8^2 = 4^2 + 6^2 - 2 \cdot 4 \cdot 6 \cdot \cos\alpha$$

$$\frac{64 - 52}{-48} = \cos\alpha$$

$$\cos\alpha = -\frac{1}{4}, \alpha > 90^\circ$$

$$\alpha = 104.48^\circ$$



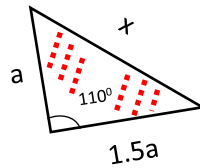
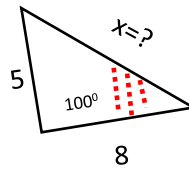
$\alpha = ?$

$$x^2 = 5^2 + 8^2 - 2 \cdot 5 \cdot 8 (\cos 100^\circ)$$

$$x^2 = 89 - 80 (\cos 100^\circ)$$

$$x^2 = 102.90$$

$$x = 10.14$$



$$x^2 = a^2 + 2.25a^2 - 1.5a^2 (\cos 110^\circ)$$

$$x^2 = 3.36a^2$$

$$x = 1.94a$$