

Procedimientos

Evaluación

$$1. \quad a = 180^\circ - 30^\circ = 90^\circ$$

$$a = 60^\circ$$

$$B = 180^\circ - 45^\circ - 90^\circ$$

$$B = 45^\circ$$

$$x = h \cdot \sin(60^\circ) / \sin(30^\circ)$$

$$x = 1,73h$$

$$200 - h = 1,73h$$

$$200 = 1,73h + h$$

$$200 = 2,73h$$

$$h = (200 / 2,73)$$

$$h = 73,26$$

$$2. \quad \frac{8}{\sin(15^\circ)} = \frac{23}{\sin(\alpha)}$$

$$\frac{8}{0,26} = \frac{23}{\sin(\alpha)}$$

$$30,77 = \frac{23}{\sin(\alpha)}$$

$$\sin(\alpha) = \frac{23}{30,77}$$

$$\sin^{-1}(\alpha) = 48,37$$

$$\alpha = 48,37$$

$$A = 180 - 15 - 48,37$$

$$A = 116,63$$

$$\sin(A) = 0,89$$

$$\frac{8 \cdot 0,89}{0,26} = \frac{7,12}{0,26} = 27,38$$

lo aproximamos $\alpha = 27,63$

$$3. d = \sqrt{8^2 + 10^2 - 2(8)(10)\cos 120^\circ}$$
$$d = 13.23 \text{ m}$$

$$4. 36^\circ + 120^\circ + C = 180^\circ$$

$$156^\circ + C = 180^\circ$$

$$C = 180^\circ - 156^\circ$$

$$C = 24^\circ$$

$$AC = 13.08$$

$$5. 20^\circ + 90^\circ + 170^\circ$$

$$\sqrt{10^2} = \sqrt{100} = 9.39 \text{ m}$$