

# BOLETÍN 3

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①.  $18^\circ \cdot \frac{\pi \text{ rad}}{180^\circ} = \frac{\pi}{10} \text{ rad}$

$$\frac{7\pi \text{ rad}}{6} \cdot \frac{180^\circ}{\pi \text{ rad}} = 210^\circ$$

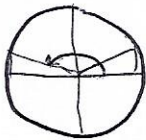
②.  $\text{tang } 25^\circ = \frac{a}{b}$

$$\frac{a}{b} = \frac{\text{sen } 25^\circ}{\text{cos } 25^\circ} \quad \text{sen } 25^\circ = \frac{a \text{ cos } 25^\circ}{b}$$

$$\begin{aligned} \text{sen}^2 25^\circ + \text{cos}^2 25^\circ &= 1 & \frac{a^2 \text{cos}^2 25^\circ}{b^2} + \text{cos}^2 25^\circ &= 1 \\ a^2 \text{cos}^2 25^\circ + b^2 \text{cos}^2 25^\circ &= b^2 & \text{cos}^2 25^\circ (a^2 + b^2) &= b^2 \\ \text{cos } 25^\circ &= \sqrt{\frac{b^2}{a^2 + b^2}} = \frac{b}{\sqrt{a^2 + b^2}} \end{aligned}$$

$$\text{sen } 25^\circ = \frac{a}{b} \cdot \frac{b}{\sqrt{a^2 + b^2}} = \frac{a}{\sqrt{a^2 + b^2}}$$

Raznos de  $155^\circ$  }  $\text{sen } 155^\circ = \text{sen}(180^\circ - 25^\circ) = \text{sen } 25^\circ = \frac{a}{\sqrt{a^2 + b^2}}$



$\text{cos } 155^\circ = \text{cos}(180^\circ - 25^\circ) = -\text{cos } 25^\circ = -\frac{b}{\sqrt{a^2 + b^2}}$

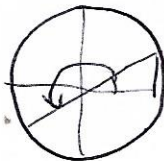
$\text{tang } 155^\circ = -\frac{a}{b}$

$\text{cosec } 155^\circ = \frac{\sqrt{a^2 + b^2}}{a}$

$\text{sec } 155^\circ = -\frac{\sqrt{a^2 + b^2}}{b}$

$\text{cotang } 155^\circ = -\frac{b}{a}$

Raznos de  $205^\circ$  }  $\text{sen } 205^\circ = \text{sen}(180^\circ + 25^\circ) = -\text{sen } 25^\circ = -\frac{a}{\sqrt{a^2 + b^2}}$



$\text{cos } 205^\circ = \text{cos}(180^\circ + 25^\circ) = -\text{cos } 25^\circ = -\frac{b}{\sqrt{a^2 + b^2}}$

$\text{tang } 205^\circ = \frac{a}{b}$

$\text{cosec } 205^\circ = -\frac{\sqrt{a^2 + b^2}}{a} \quad \text{sec } 205^\circ = -\frac{\sqrt{a^2 + b^2}}{b}$

$\text{cotang } 205^\circ = \frac{b}{a}$