

PROBLEMAS DE TRIGONOMETRÍA

Problema 168:

Simplificar la siguiente expresión:

$$\cos(180^\circ - a) \cdot \operatorname{sen}(90^\circ + b) + \operatorname{sen}(180^\circ - a) \cdot \cos(90^\circ + b)$$

Solución Problema 168:

$$\begin{aligned} \cos(180^\circ - a) \cdot \operatorname{sen}(90^\circ + b) + \operatorname{sen}(180^\circ - a) \cdot \cos(90^\circ + b) &= (-\cos a) \cdot \cos b + \operatorname{sen} a \cdot (-\operatorname{sen} b) = \\ &= -(\cos a \cdot \cos b) - (\operatorname{sen} a \cdot \operatorname{sen} b) = -[\cos(a - b)] \end{aligned}$$