



Trigonometria

Teorema de Pitágoras

$$h^2 = x^2 + y^2$$

Relação fundamental

$$\text{sen}^2(x) + \text{cos}^2(x) = 1$$

Soma e subtração de arcos

$$\text{sen}(a + b) = \text{sen}(a) \cos(b) + \text{sen}(b) \cos(a)$$

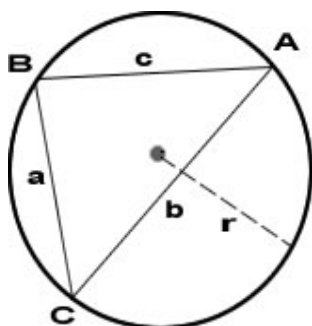
$$\text{sen}(a - b) = \text{sen}(a) \cos(b) - \text{sen}(b) \cos(a)$$

$$\text{cos}(a + b) = \text{cos}(a) \cos(b) - \text{sen}(a) \text{sen}(b)$$

$$\text{cos}(a - b) = \text{cos}(a) \cos(b) + \text{sen}(a) \text{sen}(b)$$

$$\text{tg}(a + b) = \frac{\text{tg}(a) + \text{tg}(b)}{1 - \text{tg}(a) \cdot \text{tg}(b)}$$

$$\text{tg}(a - b) = \frac{\text{tg}(a) - \text{tg}(b)}{1 + \text{tg}(a) \cdot \text{tg}(b)}$$



Lei dos cossenos

$$a^2 = b^2 + c^2 - 2 \cdot b \cdot c \cdot \text{cos}(A)$$

Lei dos senos

$$\frac{\text{sen}(A)}{a} = \frac{\text{sen}(B)}{b} = \frac{\text{sen}(C)}{c} \quad \text{ou}$$

$$\frac{a}{\text{sen}(A)} = \frac{b}{\text{sen}(B)} = \frac{c}{\text{sen}(C)} = 2r$$