

Alfa y beta

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

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

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

$$\text{sen} 2a = 2 \cdot \text{sen} a \cdot \cos a$$

$$\cos 2a = \cos^2 a - \text{sen}^2 a$$

$$\tg 2a = \frac{2 \tg a}{1 - \tg^2 a}$$

$$\text{sen } a/2 = \sqrt{1 - \cos^2 a} / 2 \quad (\text{todo dentro})$$

$$\cos a/2 = \sqrt{1 - \cos^2 a} / 2 \quad (\text{todo dentro})$$

$$\tg a/2 = \sqrt{1 - \cos^2 a} / \cos a \quad (\text{todo dentro})$$

$$\text{sen} A + \text{sen} B = 2 \text{sen} A/2 \cdot \cos B/2$$

$$\text{sen} A - \text{sen} B = 2 \cos A/2 \cdot \text{sen} B/2$$

$$\cos A + \cos B = 2 \cos A/2 \cdot \cos B/2$$

$$\cos A - \cos B = -2 \sin A/2 \cdot \sin B/2$$