

Goniometria

$$\operatorname{cosec} \alpha = \frac{1}{\operatorname{sen} \alpha}$$

$$\operatorname{sec} \alpha = \frac{1}{\operatorname{cos} \alpha}$$

$$\operatorname{cotg} \alpha = \frac{1}{\operatorname{tg} \alpha}$$

Funzioni reciproche

$$\operatorname{sen} \alpha = y_b$$

$$\operatorname{cos} \alpha = x_b$$

Coordinate del punto B associato alla circonferenza

$$\operatorname{tg} \alpha = \frac{\operatorname{sen} \alpha}{\operatorname{cos} \alpha}$$

$$\operatorname{sen}^2 \alpha + \operatorname{cos}^2 \alpha = 1$$

Relazioni fondamentali

$$\operatorname{cos} \alpha = \pm \sqrt{1 - \operatorname{sen}^2 \alpha}$$

$$\operatorname{cos} \alpha = \pm \frac{1}{\sqrt{1 + \operatorname{tg}^2 \alpha}}$$

$$\operatorname{sen} \alpha = \pm \sqrt{1 - \operatorname{cos}^2 \alpha}$$

$$\operatorname{sen} \alpha = \frac{\operatorname{tg} \alpha}{\sqrt{1 + \operatorname{tg}^2 \alpha}}$$

$$\operatorname{tg} \alpha = \frac{\operatorname{sen} \alpha}{\sqrt{1 - \operatorname{sen}^2 \alpha}}$$

$$\operatorname{tg} \alpha = \frac{\sqrt{1 - \operatorname{cos}^2 \alpha}}{\operatorname{cos} \alpha}$$

Dipendenza delle funzioni

$$\text{sen}(180 - \alpha) = \text{sen} \alpha$$

$$\text{cos}(180 - \alpha) = -\text{cos} \alpha$$

$$\text{tg}(180 - \alpha) = -\text{tg} \alpha$$

$$\text{sen}(180 + \alpha) = -\text{sen} \alpha$$

$$\text{cos}(180 + \alpha) = -\text{cos} \alpha$$

$$\text{tg}(180 + \alpha) = \text{tg} \alpha$$

$$\text{sen}(360 - \alpha) = -\text{sen} \alpha$$

$$\text{cos}(360 - \alpha) = \text{cos} \alpha$$

$$\text{tg}(360 - \alpha) = -\text{tg} \alpha$$

$$\text{sen}(90 - \alpha) = \text{cos} \alpha$$

$$\text{cos}(90 - \alpha) = \text{sen} \alpha$$

$$\text{tg}(90 - \alpha) = \text{cot} \alpha$$

$$\text{sen}(90 + \alpha) = \text{cos} \alpha$$

$$\text{cos}(90 + \alpha) = -\text{sen} \alpha$$

$$\text{tg}(90 + \alpha) = -\text{cot} \alpha$$

Angoli associati e complementari

$$\text{sen}(-\alpha) = -\text{sen} \alpha$$

$$\text{cos}(-\alpha) = \text{cos} \alpha$$

$$\text{tg}(-\alpha) = -\text{tg} \alpha$$

Angoli opposti