



Formule di addizione

Formule di sottrazione

seno

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

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

coseno

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

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

tangente

$$\text{tg}(\alpha + \beta) = \frac{\text{tg}\alpha + \text{tg}\beta}{1 - \text{tg}\alpha \text{tg}\beta}$$

$$\text{tg}(\alpha - \beta) = \frac{\text{tg}\alpha - \text{tg}\beta}{1 + \text{tg}\alpha \text{tg}\beta}$$

cotangente

$$\text{cotg}(\alpha + \beta) = \frac{\text{cotg}\alpha \text{cotg}\beta - 1}{\text{cotg}\alpha + \text{cotg}\beta}$$

$$\text{cotg}(\alpha - \beta) = \frac{\text{cotg}\alpha \text{cotg}\beta + 1}{\text{cotg}\beta - \text{cotg}\alpha}$$