

**Formule trigonometrice pentru suma și diferența a două unghiuri**

$$\cos(a + b) = \cos a \cos b - \sin a \sin b$$

$$\cos(a - b) = \cos a \cos b + \sin a \sin b$$

$$\sin(a + b) = \sin a \cos b + \cos a \sin b$$

$$\sin(a - b) = \sin a \cos b - \cos a \sin b, \forall a, b \in \mathbb{R}.$$

$$\operatorname{tg}(a + b) = \frac{\operatorname{tga} + \operatorname{tgb}}{1 - \operatorname{tgatgb}}, \forall a, b, a + b \in \mathbb{R} - \left\{ (2k + 1) \frac{\pi}{2} \mid k \in \mathbb{Z} \right\}$$

$$\operatorname{tg}(a - b) = \frac{\operatorname{tga} - \operatorname{tgb}}{1 + \operatorname{tgatgb}}, \forall a, b, a - b \in \mathbb{R} - \left\{ (2k + 1) \frac{\pi}{2} \mid k \in \mathbb{Z} \right\}$$

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