

Формулы приведения

**Основные
тригонометрические
формулы**

$$\begin{aligned} \cos(2\pi - \alpha) &= \\ &= \cos \alpha \end{aligned}$$

$$\sin(180^\circ + \alpha) = -\sin \alpha$$

$$\operatorname{tg}\left(\frac{\pi}{2} + \alpha\right) = -\operatorname{ctg}\alpha$$

$$\operatorname{ctg}\left(\frac{3\pi}{2} - \alpha\right) =$$
$$= \operatorname{tg} \alpha$$

$$\begin{aligned} \sin(270^\circ + \alpha) &= \\ &= -\cos \alpha \end{aligned}$$

$$\cos\left(\frac{\pi}{2} + \alpha\right) = -\sin \alpha$$

$$\operatorname{tg}(\pi - \alpha) =$$

$$= -\operatorname{tg} \alpha$$

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

$$= -\operatorname{tg} \alpha$$

$$\cos(-\alpha) =$$

$$= \cos \alpha$$

$$\sin(-30^\circ) =$$
$$= -0,5$$

$$\operatorname{tg}\left(-45^{\boxtimes}\right) =$$

$$= -1$$