# Формулы приведения

## Математический диктант

$$1)\ \sin\left(-\frac{25\pi}{4}\right)=$$

$$2)\cos\left(-\frac{29\pi}{4}\right)=$$

$$3)\ \frac{12tg19^{\circ}}{tg161^{\circ}} =$$

$$4)72tg4^{\square} \cdot tg94^{\square} =$$

$$5)\,3\sin\left(\frac{5\pi}{2}-\alpha\right)=$$

$$6)\cos(-3\pi-\beta)=$$

$$7) - 7\sqrt{3}tg660^{\square} =$$

# Формулы приведения

## Математический диктант. Ответы.

$$1)\ \sin\left(-\frac{25\pi}{4}\right) = -\sin\left(\frac{25\pi}{4}\right) =$$

$$= -\sin\left(\frac{26\pi}{4} - \frac{\pi}{4}\right) = -\sin\left(6\pi - \frac{\pi}{4}\right) =$$

$$= +\sin\left(\frac{\pi}{4}\right) = \frac{\sqrt{2}}{2}$$

$$2)\cos\left(-\frac{29\pi}{4}\right)=\cos\left(\frac{29\pi}{4}\right)=$$

$$=\cos\left(\frac{28\pi}{4}+\frac{\pi}{4}\right)=\cos\left(7\pi+\frac{\pi}{4}\right)=$$

$$=-\cos\left(\frac{\pi}{4}\right)=-\frac{\sqrt{2}}{2}$$

$$3)\ \frac{12tg19^{\circ}}{tg161^{\circ}} = \frac{12tg19^{\circ}}{tg(180^{\circ}-19^{\circ})} =$$

$$= \frac{12tg19^{\circ}}{tg(\pi-19^{\circ})} = \frac{12tg19^{\circ}}{-tg19^{\circ}} =$$

$$= -12$$

$$4)\,72tg4^{\circ}\cdot tg94^{\circ}=$$

$$=72tg4^{\circ}\cdot tg(90^{\circ}+4^{\circ})=$$

$$=-72tg4^{\circ}\cdot ctg4^{\circ}=-72$$

$$5)3\sin\left(\frac{5\pi}{2}-\alpha\right)=$$

$$=3\cos\alpha$$

$$6)\cos\left(-3\pi-\beta\right)=$$

$$=\cos\left(-\left(3\pi+\beta\right)\right)=$$

$$=\cos\left(3\pi+\beta\right)=$$

$$=-\cos\beta$$

$$7)\ -7\sqrt{3}tg660^{\circ} =$$

$$= -7\sqrt{3}tg(720^{\circ} - 60^{\circ}) =$$

$$= -7\sqrt{3} \cdot (-tg60^{\circ}) =$$

$$= 7\sqrt{3} \cdot \sqrt{3} = 21$$

# Тема урока?

$$\cos(2\pi - \alpha)$$

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

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

$$\cos\left(\frac{3\pi}{2} + \alpha\right)$$

$$\cos\left(\frac{\pi}{4} - \alpha\right)$$

$$\sin(45^\circ + \alpha)$$

$$\sin\left(\frac{\pi}{3} + \alpha\right) =$$

$$\cos\left(\frac{\pi}{6} + \alpha\right)$$