

Формулы для решения уравнений.

1. $\sin x = 0$ $x = \pi n, n \in \mathbb{Z}$

2. $\sin x = 1$ $x = \frac{\pi}{2} + 2\pi n,$

3. $\sin x = -1$ $x = -\frac{\pi}{2} + 2\pi n, n \in \mathbb{Z}$

4. $\sin x = \alpha$ $x = (-1)^n \arcsin \alpha + \pi n, n \in \mathbb{Z}$

5. $\cos x = 0$ $x = \frac{\pi}{2} + \pi n, n \in \mathbb{Z}$

6. $\cos x = 1$ $x = 2\pi n, n \in \mathbb{Z}$

7. $\cos x = -1$ $x = \pi + 2\pi n, n \in \mathbb{Z}$

8. $\cos x = \alpha$ $x = \pm \arccos \alpha + 2\pi n, n \in \mathbb{Z}$

9. $\operatorname{tg} x = \alpha$ $x = \operatorname{arctg} \alpha + \pi n, n \in \mathbb{Z}$

10. $\operatorname{ctg} x = \alpha$ $x = \operatorname{arctg} \frac{1}{\alpha} + \pi n, n \in \mathbb{Z}$

Решить уравнения:

1. $\sin x = 0$

2. $\operatorname{tg} x = 0$

3. $4\cos x = 0$

4. $4\cos x = 1$

5. $2\cos x - \sqrt{2} = 0$

6. $\operatorname{ctg} 2x - 1 = 0$

7. $3\sin x = 2$