

Укажите только ответы к  
следующим уравнениям

1.  **$\cos x=0$**
2.  **$\sin x=0$**
3.  **$\operatorname{tg} x=0$**
4.  **$\operatorname{ctg} x=0$**
5.  **$\cos x=1$**
6.  **$\sin x=1$**
7.  **$\cos x=-1$**
8.  **$\sin x=-1$**
9.  **$\cos x=1/2$**
10.  **$\sin x=1/2$**
11.  **$\operatorname{tg} x=\sqrt{3}$**
12.  **$\operatorname{ctg} x=\sqrt{3}$**
13.  **$\cos x=-1/2$**
14.  **$\sin x=-1/2$**
15.  **$\operatorname{tg} x=-\sqrt{3}$**
16.  **$\operatorname{ctg} x=-\sqrt{3}$**

## Ответы к устному счету

1.  $X = \pi/2 + \pi n$

2.  $X = \pi n$

3.  $X = \pi n$

4.  $X = \pi/2 + \pi n$

5.  $X = 2\pi n$

6.  $X = \pi/2 + 2\pi n$

7.  $X = \pi + 2\pi n$

8.  $X = -\pi/2 + 2\pi n$

9.  $X = \pm \pi/3 + 2\pi n$

$n$

10.  $X = (-1)^n \pi/6 + \pi n$

11.  $X = \pi/3 + \pi n$

12.  $X = \pi/6 + \pi n$

13.  $X = \pm 2\pi/3 + 2\pi n$

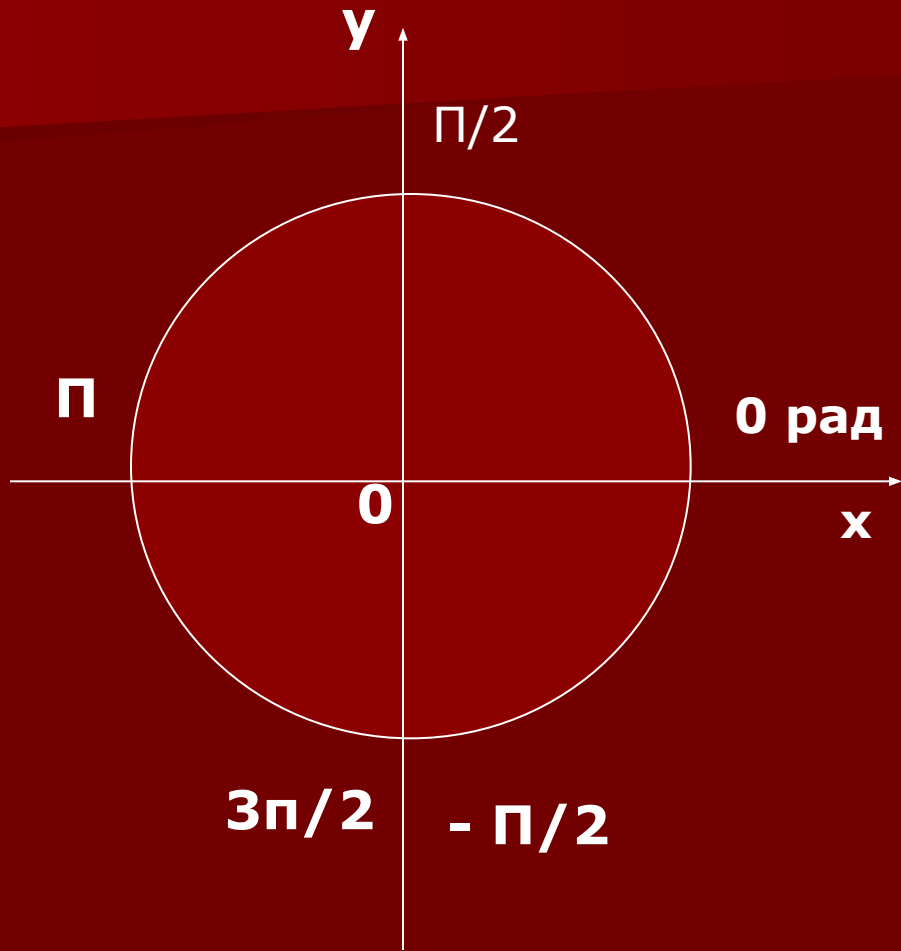
$n+1$

14.  $X = (-1)^{n+1} \pi/6 + \pi n$

15.  $X = -\pi/3 + \pi n$

16.  $X = 5\pi/6 + \pi n$

# Устный счет



$$\sin x = 1$$

$$\cos x = 0$$

$$\sin x = -1$$

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

$$\cos x = 1$$

$$\operatorname{ctg} x = 0$$

$$\sin x = \frac{1}{2}$$

$$\cos x = \frac{\sqrt{3}}{2}$$

$$\sin x = -\frac{\sqrt{3}}{2}$$

$$\cos x = -\frac{1}{2}$$

# ОТВЕТЫ

$$\sin x = 1$$

$$x = \pi/2 + 2\pi n$$

$$\cos x = 0$$

$$x = \pi/2 + \pi n$$

$$\sin x = -1$$

$$x = -\pi/2 + 2\pi n$$

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

$$x = \pi n$$

$$\cos x = 1$$

$$x = 0 + 2\pi n$$

$$\operatorname{ctg} x = 0$$

$$x = \pi/2 + \pi n$$

$$\sin x = 1/2$$

$$x = (-1)^n \pi/6 + \pi n$$

$$\cos x = \sqrt{3}/2$$

$$x = \pm \pi/6 + 2\pi n$$

$$\sin x = -\sqrt{3}/2$$

$$x = (-1)^{n+1} \pi/3 + \pi n$$

$$\cos x = -1/2$$

$$x = \pm 2\pi/3 + 2\pi n$$