

1. Решите уравнение $\operatorname{ctg} 2x = -\frac{1}{\sqrt{3}}$.

1) $\frac{\pi}{3} + \frac{4\pi k}{3}$ 2) $-\frac{\pi}{6} + \frac{\pi k}{2}$ 3) $\frac{\pi}{4} + \frac{\pi k}{2}$ 4) $\frac{\pi}{3} + \frac{\pi k}{2}$ 5) $\frac{4\pi}{3} + \frac{\pi k}{2}$ 6) $-\frac{\pi}{3} + \frac{\pi k}{2}$

2. Решите уравнение $\operatorname{tg} 3x = -1$.

1) $-\frac{\pi}{4} + \frac{\pi k}{2}$ 2) $-\frac{\pi}{12} + \frac{\pi k}{3}$ 3) $\frac{\pi}{12} + \frac{\pi k}{3}$ 4) $\frac{\pi}{4} + \frac{\pi k}{3}$ 5) $-\frac{\pi}{8} + \frac{\pi k}{3}$ 6) $-\frac{\pi}{12} + \frac{\pi k}{2}$