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) $-\frac{\pi}{12} + \frac{\pi k}{2}$