

1. Решите простейшее тригонометрическое неравенство $\operatorname{ctg} \frac{4x}{3} \leq \sqrt{3}$.

$$\begin{array}{ll} 1) \bigcup_{k \in \mathbb{Z}} \left(\frac{\pi}{8} + \frac{3\pi}{4}k; \frac{3\pi}{4} + \frac{3\pi}{4}k \right) & 2) \bigcup_{k \in \mathbb{Z}} \left[\frac{\pi}{8} + \frac{3\pi}{4}k; \frac{3\pi}{4} + \frac{3\pi}{4}k \right] \\ 3) \bigcup_{k \in \mathbb{Z}} \left[\frac{\pi}{8} + \frac{3\pi}{4}k; \frac{3\pi}{4} + \frac{3\pi}{4}k \right) & 4) \bigcup_{k \in \mathbb{Z}} \left[\frac{\pi}{8} + \frac{\pi}{4}k; \frac{3\pi}{4} + \frac{\pi}{4}k \right) \\ 5) \bigcup_{k \in \mathbb{Z}} \left(\frac{\pi}{8} + \frac{3\pi}{4}k; \frac{3\pi}{4} + \frac{3\pi}{4}k \right] & 6) \bigcup_{k \in \mathbb{Z}} \left[\frac{\pi}{8} + \frac{3\pi}{2}k; \frac{3\pi}{4} + \frac{3\pi}{2}k \right) \end{array}$$