

Решите простейшее тригонометрическое неравенство $\operatorname{ctg} 2x \leq 1$.

$$1) \bigcup_{k \in \mathbb{Z}} \left(\frac{\pi}{8} + \frac{\pi k}{2}; \frac{\pi}{2} + \frac{\pi k}{2} \right) \quad 2) \bigcup_{k \in \mathbb{Z}} \left[\frac{\pi}{8} + \frac{\pi k}{2}; \frac{\pi}{2} + \frac{\pi k}{2} \right]$$

$$3) \bigcup_{k \in \mathbb{Z}} \left[\frac{\pi}{8} + \frac{\pi k}{2}; \frac{\pi}{2} + \frac{\pi k}{2} \right) \quad 4) \bigcup_{k \in \mathbb{Z}} \left[\frac{\pi}{8} + \frac{\pi k}{6}; \frac{\pi}{2} + \frac{\pi k}{6} \right)$$

$$5) \bigcup_{k \in \mathbb{Z}} \left[\frac{\pi}{8} + \frac{\pi k}{4}; \frac{\pi}{2} + \frac{\pi k}{4} \right) \quad 6) \bigcup_{k \in \mathbb{Z}} \left(\frac{\pi}{8} + \frac{\pi k}{2}; \frac{\pi}{2} + \frac{\pi k}{2} \right]$$