

Решите тригонометрическое неравенство $\operatorname{ctg}^2 x - 5 \operatorname{ctg} x + 4 \leq 0$.

$$1) \bigcup_{k \in \mathbb{Z}} \left(\operatorname{arccctg} 4 + \pi k; \frac{\pi}{4} + \pi k \right] \quad 2) \bigcup_{k \in \mathbb{Z}} \left[\operatorname{arccctg} 4 + \pi k; \frac{\pi}{4} + \pi k \right]$$

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

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