

Решите простейшее тригонометрическое неравенство $\operatorname{ctg} x \geq -\sqrt{3}$.

$$1) \bigcup_{k \in \mathbb{Z}} \left(\pi k; \frac{\pi}{3} + \pi k \right]. \quad 2) \bigcup_{k \in \mathbb{Z}} \left(\pi k; \frac{\pi}{6} + \pi k \right].$$

$$3) \bigcup_{k \in \mathbb{Z}} \left[\pi k; \frac{5\pi}{6} + \pi k \right) \quad 4) \bigcup_{k \in \mathbb{Z}} \left(\pi k; \frac{5\pi}{6} + \pi k \right]$$

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