

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

1) $\bigcup_{k \in \mathbb{Z}} \left(\frac{4\pi}{3}k; \frac{4\pi}{9} + \frac{4}{3}\pi k \right]$ 2) $\bigcup_{k \in \mathbb{Z}} \left[\frac{4\pi}{3}k; \frac{4\pi}{9} + \frac{4}{3}\pi k \right)$

3) $\bigcup_{k \in \mathbb{Z}} \left(\frac{\pi}{3}k; \frac{4\pi}{9} + \frac{4}{3}\pi k \right]$ 4) $\bigcup_{k \in \mathbb{Z}} \left[\frac{4\pi}{3}k; \frac{4\pi}{9} + \frac{4}{3}\pi k \right]$

5) $\bigcup_{k \in \mathbb{Z}} \left(\frac{4\pi}{3}k; \frac{4\pi}{9} + \frac{4}{3}\pi k \right)$ 6) $\bigcup_{k \in \mathbb{Z}} \left(\frac{\pi}{3}k; \frac{5\pi}{9} + \frac{4}{3}\pi k \right]$