

1. Решите простейшее тригонометрическое неравенство $3 \operatorname{tg} \frac{3x}{2} \leq -\sqrt{3}$.

- 1) $\bigcup_{k \in \mathbb{Z}} \left[-\frac{\pi}{3} + \frac{2\pi k}{3}; -\frac{\pi}{9} + \frac{2\pi k}{3} \right]$ 2) $\bigcup_{k \in \mathbb{Z}} \left(-\frac{\pi}{3} + \frac{2\pi k}{3}; -\frac{\pi}{9} + \frac{2\pi k}{3} \right)$
- 3) $\bigcup_{k \in \mathbb{Z}} \left(-\frac{\pi}{3} + \frac{2\pi k}{3}; -\frac{\pi}{9} + \frac{2\pi k}{3} \right]$ 4) $\bigcup_{k \in \mathbb{Z}} \left[-\frac{\pi}{3} + \frac{2\pi k}{3}; -\frac{\pi}{9} + \frac{2\pi k}{3} \right)$
- 5) $\bigcup_{k \in \mathbb{Z}} \left(-\frac{\pi}{3} + \frac{\pi k}{3}; -\frac{\pi}{9} + \frac{\pi k}{3} \right]$ 6) $\bigcup_{k \in \mathbb{Z}} \left(-\frac{\pi}{3} + \frac{4\pi k}{3}; -\frac{\pi}{9} + \frac{4\pi k}{3} \right]$