

1. Решите простейшее тригонометрическое неравенство $\cos 3x < -\frac{1}{2}$.

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