

Решите простейшее тригонометрическое неравенство $\sin x > \frac{1}{2}$.

$$1) \bigcup_{k \in \mathbb{Z}} \left(\frac{\pi}{3} + 2\pi k; \frac{5\pi}{6} + 2\pi k \right) \quad 2) \bigcup_{k \in \mathbb{Z}} \left(\frac{\pi}{6} + 2\pi k; \frac{5\pi}{6} + 2\pi k \right)$$

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

$$5) \bigcup_{k \in \mathbb{Z}} \left[\frac{\pi}{6} + 2\pi k; \frac{5\pi}{6} + 2\pi k \right] \quad 6) \bigcup_{k \in \mathbb{Z}} \left(\frac{\pi}{6} + \pi k; \frac{5\pi}{6} + \pi k \right)$$