

Решите простейшее тригонометрическое неравенство $2 \sin x \geq -\sqrt{3}$.

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

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

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

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

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

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