

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

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

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