

Решите простейшее тригонометрическое неравенство $\sin 2x \leq \frac{\sqrt{2}}{2}$.

$$1) \bigcup_{k \in \mathbb{Z}} \left(-\frac{5\pi}{8} + \pi k; \frac{\pi}{8} + \pi k \right] \quad 2) \bigcup_{k \in \mathbb{Z}} \left[-\frac{5\pi}{8} + \pi k; \frac{\pi}{8} + \pi k \right)$$

$$3) \bigcup_{k \in \mathbb{Z}} \left[-\frac{5\pi}{8} + \pi k; \frac{\pi}{8} + \pi k \right] \quad 4) \bigcup_{k \in \mathbb{Z}} \left(-\frac{5\pi}{8} + \pi k; \frac{\pi}{8} + \pi k \right)$$

$$5) \bigcup_{k \in \mathbb{Z}} \left[-\frac{3\pi}{8} + \pi k; \frac{\pi}{8} + \pi k \right] \quad 6) \bigcup_{k \in \mathbb{Z}} \left[-\frac{5\pi}{8} + \pi k; \frac{3\pi}{8} + \pi k \right]$$