

Решите систему неравенств:
$$\begin{cases} 2\cos\frac{x}{4} + 1 \geq 0, \\ 2\sin\frac{x}{4} - \sqrt{2} \leq 0. \end{cases}$$

- 1) $\left[-\frac{8\pi}{3} + 8\pi n; \pi + 8\pi n\right], n \in \mathbb{Z}$ 2) $\left(\frac{\pi}{3} + 2\pi n; \frac{\pi}{2} + 2\pi n\right], n \in \mathbb{Z}$
3) $\left(\frac{\pi}{3} + 2\pi n; \frac{\pi}{2} + 2\pi n\right] \cup \left[\frac{3\pi}{2} + 2\pi n; \frac{5\pi}{2} + 2\pi n\right), n \in \mathbb{Z}$ 4) $\left(\frac{\pi}{3} + 2\pi n; \frac{\pi}{2} + 2\pi n\right), n \in \mathbb{Z}$
5) $\left(-\frac{8\pi}{3} + 8\pi n; \pi + 8\pi n\right), n \in \mathbb{Z}$