

Решите систему уравнений:
$$\begin{cases} x - y = 2\pi, \\ \sin x + \cos y = 1. \end{cases}$$

$$1) \left\{ \left(\pm \frac{5\pi}{4} + \frac{\pi}{4} + \pi(k+1), \pm \frac{\pi}{4} + \frac{\pi}{4} + 2\pi k \right) : k \in \mathbb{Z} \right\}$$

$$2) \left\{ \left(\pm \frac{3\pi}{4} + 2\pi k, \pm \frac{\pi}{4} + 2\pi k \right) : k \in \mathbb{Z} \right\}$$

$$3) \left\{ \left(\pm \frac{\pi}{4} - \frac{\pi}{4} + 2\pi k, \pm \frac{\pi}{4} - \frac{\pi}{4} + 2\pi k \right) : k \in \mathbb{Z} \right\}$$

$$4) \left\{ \left(\pm \frac{\pi}{4} + \frac{\pi}{4} + 2\pi(k+1), \pm \frac{\pi}{4} + \frac{\pi}{4} + 2\pi k \right) : k \in \mathbb{Z} \right\}$$