

$$\cos x + \cos y = \frac{1}{2}$$
$$\sin^2 x + \sin^2 y = \frac{7}{4}$$

$$\cos x = a$$
$$\cos y = b$$

$$a + b = \frac{1}{2}$$
$$a^2 + b^2 = \frac{7}{4}$$

$$2a^2 - a = 0$$
$$a = 0, \frac{1}{2}$$
$$b = \frac{1}{2}, 0$$
$$\cos x = 0$$
$$x = \frac{\pi}{2} + \pi k$$
$$\cos y = \frac{1}{2}$$
$$y = \pm \frac{\pi}{3} + 2\pi h$$

$$\cos x = \frac{1}{2}$$
$$x = \pm \frac{\pi}{3} + 2\pi k$$
$$\cos y = 0$$
$$y = \frac{\pi}{2} + \pi h$$

Ответ $(\frac{\pi}{2} + \pi k; \pm \frac{\pi}{3} + 2\pi h)$ $(\pm \frac{\pi}{3} + 2\pi h; \frac{\pi}{2} + \pi k)$

