

$$\sin^{2002} x + \cos^{2002} x = 1$$

$$\sin x = \pm 1$$

$$x = \pi/2 + \pi k$$

$$\cos x = 0$$

$$x = \pi/2 + \pi k$$

$$x_1 = \pi/2 + \pi k$$

$$\cos x = \pm 1$$

$$x = \pi k$$

$$\sin x = 0$$

$$x = \pi k$$

$$x_2 = \pi k$$

Ответ: $\pi k/2$