

$$\sin^8 x - \cos^5 x = 1$$

$$\sin^8 x = 1 \quad x = \pm \pi/2 + 2\pi k$$

$$\cos^5 x = 0 \quad x = \pi/2 + \pi k$$

$$\cos^5 x = -1 \quad x = \pi + 2\pi k$$

$$\sin^8 x = 0 \quad x = \pi n$$

Ответ: $\pi/2 + \pi k$; $\pi + 2\pi k$