

$$1 + \cos(x^2 + 1) = \sin^2(x^2 + 1)$$

$$x^2 + 1 = t$$

$$1 + \cos t = \sin^2 t$$

$$1 + \cos t = 1 - \cos^2 t$$

$$\cos^2 t + \cos t = 0$$

$$\cos t = k$$

$$k^2 + k = 0$$

$$k_1 = 0$$

$$k_2 = -1$$

$$\cos t = 0$$

$$t = P/2 + Pn$$

$$\cos t = -1$$

$$t = P + 2Pn$$

$$x^2 + 1 = P/2 + Pn$$

$$x = \pm \sqrt{P/2 + Pn - 1}$$

$$n \geq 0$$

$$x^2 + 1 = P + 2Pn$$

$$x = \pm \sqrt{P + 2Pn - 1}$$

$$n \geq 0$$

Ответ: $x = \pm \sqrt{P/2 + Pn - 1}$ $n \geq 0$; $x = \pm \sqrt{P + 2Pn - 1}$ $n \geq 0$.

$$x^2 = 1$$
$$x = \pm 1$$

