

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

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

$$1 + \cos y - 1 + \cos^2 y = 0$$

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

$$\cos y = z$$

$$z + z^2 = 0$$

$$z(1 + z) = 0$$

$$z = 0 \quad z = -1$$

$$\cos y = 0$$

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

$$\cos y = -1$$

$$y = \pi + 2\pi k$$

$$x^2 + 1 = \pi/2 + \pi k$$

$$x = \pm \sqrt{\pi/2 + \pi k - 1}; \quad k \geq 0$$

$$x = \pm \sqrt{\pi + 2\pi k - 1}; \quad k \geq 0$$

