

$$\sin x + \cos 5x = 2$$

$$\sin x = 1$$

$$\cos 5x = 1$$

$$x = P/2 + 2Pk$$

$$x = 2Pn/5$$

Решений нет

$$\sin(x/2) + \cos 2x = 2$$

$$\sin(x/2) = 1$$

$$\sin 2x = 1$$

$$x = P + 4Pk = P + 4P + 4Pt = 5P + 4Pt$$

$$x = Pn$$

$$k = 1 + t$$

$$n = 3 - 4t$$

Ответ: $5P + 4Pt$