

$$3\sin x \cdot \cos x + 4\sin x = 4 - 3\cos^2 x + \cos x$$

$$3\sin x \cdot \cos x + 4\sin x = 4(\sin^2 x + \cos^2 x) - 3\cos^2 x + \cos x$$

$$3\sin x \cdot \cos x + 4\sin x = 4\sin^2 x + 4\cos^2 x - 3\cos^2 x + \cos x$$

$$3\sin x \cdot \cos x + 4\sin x = 4\sin^2 x + \cos^2 x + \cos x$$

$$3\sin x \cdot \cos x + 4\sin x = 4\sin^2 x + 1 - \sin^2 x + \cos x$$

$$3\sin x \cdot \cos x + 4\sin x = 3\sin^2 x + 1 + \cos x$$

$$3\sin x \cdot \cos x + 3\sin x + \sin x = 3\sin^2 x + 1 + \cos x$$

$$3\sin x \cdot \cos x + 3\sin x + \sin x - 3\sin^2 x - \cos x - 1 = 0$$

$$\cos x(3\sin x - 1) - \sin x(3\sin x - 1) + (3\sin x - 1) \cdot (1) = 0$$

$$(3\sin x - 1)(\cos x - \sin x + 1) = 0$$

$$3\sin x - 1 = 0$$

$$3\sin x = 1$$

$$\sin x = \frac{1}{3}$$

$$x = \arcsin(\frac{1}{3}) + 2Pn$$

$$x = P - \arcsin(\frac{1}{3}) + 2Pn$$

$$\cos x - \sin x + 1 = 0$$

$$\sqrt{2} \cdot (\cos x / \sqrt{2} - \sin x / \sqrt{2}) =$$

$$\sin y = 1 / \sqrt{2}$$

$$\cos y = -1 / \sqrt{2}$$

$$y = 3P/4$$

$$\sqrt{2} \cdot (\cos x \cdot \sin y + \sin x \cdot \cos y) = \sqrt{2} \cdot \sin(x+y)$$

$$\sqrt{2} \cdot \sin(x+y) + 1 = 0$$

$$\sqrt{2} \cdot \sin(x+3P/4) + 1 = 0$$

$$\sin(x+3P/4) = -1 / \sqrt{2}$$

$$x+3P/4 = 7P/4 + 2Pn$$

$$x = P + 2Pn$$

$$x+3P/4 = 5P/4 + 2Pn$$

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

Ответ: $P+2Pn; P/2+2Pn; \arcsin(\frac{1}{3})+2Pn; P-\arcsin(\frac{1}{3})+2Pn.$

Фракталы - Бесконечно самоподобные фигуры

