

$$\sqrt{1-\cos 2x} / \sin x = \sqrt{2} * (\cos x - \frac{1}{2})$$

$$(1-\cos 2x) / \sin x = 2(\cos x - \frac{1}{2})^2$$

$$1-\cos 2x \geq 0$$

$$\sin x \neq 0$$

$$(1-1+2\sin^2 x) / \sin^2 x = 2(\cos x - \frac{1}{2})^2$$

$$2=2(\cos x - \frac{1}{2})^2$$

$$1=(\cos x - \frac{1}{2})^2$$

$$1-(\cos x - \frac{1}{2})^2=0$$

$$(1-\cos x + \frac{1}{2})(1+\cos x - \frac{1}{2})=0$$

$$\cos x = \frac{3}{2}$$

x - нет

$$-\frac{1}{2}=\cos x$$

$$x_1, 2 = + - 2\pi/3 + 2pk$$

$$\sin x = + - \sqrt{3}/2 \neq 0$$

x₁, x₂

$$\sin x * (\cos x - \frac{1}{2}) \geq 0$$

$$\sqrt{3}/2(-\frac{1}{2} - \frac{1}{2}) \geq 0 - x_1, \text{ неверно}$$

$$-\sqrt{3}/2(-\frac{1}{2} - \frac{1}{2}) \geq 0$$

Ответ: $-2\pi/3 + 2pk$

$$\begin{aligned} a^2 &= b^2 \\ a^2 - b^2 &= 0 \\ (a-b)(a+b) &= 0 \end{aligned}$$

$$\begin{aligned} \sqrt{a} &= b \\ b &> 0 \end{aligned}$$

$$\begin{aligned} \sqrt{a} &= b \\ c & \end{aligned}$$

$$\begin{aligned} \sin x \neq 0 \\ 1 - \cos 2x \geq 0 \end{aligned}$$