TRIGONOMETRIJSKE JEDNADŽBE

Riješi jednadžbu:

Transformacija zbroja u umnožak

$$\sin\alpha - \sin\beta = 2\cdot\cos\frac{\alpha+\beta}{2}\cdot\sin\frac{\alpha-\beta}{2}$$

5.

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

$$2\cdot\cos\frac{3x+x}{2}\cdot\sin\frac{3x-x}{2} = 0 \qquad /:2$$

$$\cos\frac{4x}{2}\cdot\sin\frac{2x}{2} = 0$$

$$\cos 2x\cdot\sin x = 0$$

$$\cos 2x = 0 \qquad\qquad\qquad \sin x = 0$$

$$2x = \frac{\pi}{2} + k\pi \quad /\cdot\frac{1}{2} \qquad\qquad x = 0 + k\pi$$

$$x_1 = \frac{\pi}{4} + \frac{k\pi}{2} \qquad\qquad\qquad x_2 = k\pi$$

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