

$$9 \quad \frac{1}{3} \cos x + \frac{1}{3} = 0$$

$$\frac{1}{3} \cos x = -\frac{1}{3} \quad /: \frac{1}{3}$$

$$\cos x = -1$$

$$\text{Cij } x = \cos 180$$

$$x = \pm 180 + 360k$$

$$0 \leq x \leq 360 \quad \text{כ"ן}$$

$$180^\circ \quad \text{יש רק 1}$$

שימו לב, ארבעת זוויות אלו הן $180 + 360k$.

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$$\cos x = -0.2$$

$$\cos x = \cos 101.53$$

$$x = \pm 101.53 + 360k$$

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$$4 \text{Cij } 4x = -4$$

$$-90 \leq x \leq 90$$

$$\text{Cij } 4x = -1$$

$$\text{Cij } 4x = \text{Cij } 180$$

$$4x = \pm 180 + 360k \quad /: 4$$

$$x = \pm 45 + 90k$$

$$-45, 45$$

התחלה

$$\cdot 45 + 90k \quad \text{הערות: זוויות אלו הן}$$

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$$\tan 3x + 1 = \sqrt{2}$$

$$\tan 3x = \sqrt{2} - 1$$

$$\tan 3x = \tan 22.5 \quad /: 3$$

$$x = 7.5 + 60k$$

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$$\tan 2x = 4$$

$$\tan 2x = \tan 75.96$$

$$2x = 75.96 + 180k \quad /: 2$$

$$x = 37.98 + 90k$$

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$$\tan^2 2x = \frac{1}{3} \quad / \sqrt{\quad}$$

$$\tan 2x = \sqrt{\frac{1}{3}}, \quad \tan 2x = -\sqrt{\frac{1}{3}}$$

$$\tan 2x = \tan 30$$

$$\tan 2x = -30 + 180k$$

$$2x = 30 + 180k$$

$$2x = -30 + 180k$$

$$x = 15 + 90k$$

$$x = -15 + 90k$$

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$$\sin x - \sin x \tan x = 0$$

$$\sin x (1 - \tan x) = 0$$

$$\sin x = 0$$

$$x = 360k, 180 + 360k$$

$$1 - \tan x = 0$$

$$\tan x = 1 = \tan 45$$

$$x = 45 + 180k$$