Solving TRIG EQUATIONS

$$2\sin^2 x + 5\sin x - 3 = 0 \qquad [0, 2\pi]$$

$$2\sin x - 1)(\sin x + 3) = 0 \qquad x = \pi$$

$$2\sin x - 1 = 0 \qquad \sin x + 3 = 0$$

$$\sin x = 1/2 \qquad \sin x = 3$$

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$$\cos x = \cos x = 1$$

$$\cos x = 1/2 \qquad \sin x = 3$$

Set 
$$\theta = 2\cos\theta + 1$$
 $\cos\theta = 2\cos\theta + 1$ 
 $1 = 2\cos^2\theta + \cos\theta$ 
 $0 = 2\cos^2\theta + \cos\theta = 1$ 
 $0 = (2\cos\theta - 1)(\cos\theta + 1)$ 
 $2\cos\theta - 1 = 0$ 
 $\cos\theta - 1 = 0$ 

$$|2co|^{2}\theta - 5col\theta - 3 = 0 \qquad [0, 360]$$

$$(3col\theta + 1)(4col\theta - 3) = 0$$

$$3col\theta + 1 = 0 \qquad 4col\theta - 3 = 0$$

$$\cot \theta = \frac{1}{3} \qquad \cot \theta = \frac{3}{4}$$

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$$\cot^{2}(-1/3) = 108.4$$

$$5|n^{2}\theta + (\omega s \theta = 0) \qquad [6^{\circ}, 366)$$

$$1 - (\omega s^{2}\theta + (\omega s \theta = 0) \qquad 5|n^{2}\theta + (\omega s^{2}\theta = 1)$$

$$D = (\omega s^{2}\theta - (\omega s \theta = 1))$$

$$Cos \theta = \frac{1 + \sqrt{1 + 4(1)(1)}}{2(1)} \qquad x^{2} + x - 1 = 0$$

$$x = \frac{1 + \sqrt{5}}{2(1)} \qquad (0s \theta = 1 + \sqrt{5})$$

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$$\cos \theta = \frac$$