TRIG EQUATIONS

$$2\sin^2 x + 5\sin x - 3 = 0 \qquad [0,217]$$

$$(2\sin x - 1)(\sin x + 3) = 0 \qquad |\pi|_{6}$$

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

$$\sin x - \frac{1}{2} \qquad \cos x + 3 = 0$$

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$$\cos x - \frac{1$$

Sec
$$\theta = 2\cos\theta + 1$$

$$= 2\cos\theta + 1$$

$$= 2\cos\theta + \cos\theta$$

$$= 2\cos^2\theta + \cos\theta$$

$$= 2\cos^2$$

$$|2 \cot^{2}\theta - 5 \cot \theta - 3 = 0 \quad [0^{\circ}, 360^{\circ})$$

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

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

$$\cot \theta = \frac{3}{4} \quad (6 + \theta = -\frac{1}{3}) \quad \text{When this func}$$

$$(53.1) \quad (53.1) \quad (7.6) \quad (10.4) \quad 288.4^{\circ}$$

$$\theta = 53.1^{\circ}, 233.1^{\circ}, 108.4^{\circ}, 288.4^{\circ}$$

$$S_{11}^{2}\theta + \cos\theta = 0 \qquad [b_{1}^{2}32b^{2}]$$

$$|-\cos^{2}\theta + \cos\theta = 0 \qquad S_{11}^{2}\theta + \cos^{2}\theta = |$$

$$0 = \cos^{2}\theta - \cos\theta - |$$

$$\cos\theta = \frac{1 - \sqrt{1 + \sqrt{2}}}{3(1)}$$

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$$\cos\theta = \frac{1 - \sqrt{1 + \sqrt{2}}}{3(1)}$$

$$\cos\theta = -0.618$$

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$$\sin^{2}\theta + \cos\theta = 0$$

$$\cos\theta = -0.618$$

$$\sin^{2}\theta + \cos^{2}\theta = 0$$

$$\cos^{2}\theta - \cos^{2}\theta = 0$$

$$\sin^{2}\theta - \cos^{2}\theta = 0$$

Hnt: #/6 $2\cos^2 x - \sqrt{3}\cos x = 0$

Cos x (2 cos x - \(\sigma \) = U

[0, 217)

 $2x^2 - 3x = 0$