SOLVING TRIG EQUATIONS

$$2\sin^2 x + 5\sin x - 3 = 0$$

$$[0, 2\pi)$$

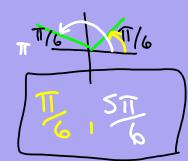
$$(2\sin x - 1)(\sin x + 3) = 0 \qquad 2x^{2} + 5x - 3 = 0$$

$$(2x - 1)(x + 3)$$

$$2x^{2} + 5x - 3 = 0$$

 $(2x - i)(x + 3)$

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



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

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

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

$$O = \cos\theta$$

$$|2\cot^{2}\theta - 5\cot\theta - 3 = 0 \qquad \left[0^{\circ}, 360^{\circ}\right]$$

$$(9\omega + \theta - 3)(3\omega + \theta + 1) = 0$$

$$\cot^{-1}(3/4) = 53.1 \qquad \cot^{-1}(1/3) = 71.6$$

$$53.1^{\circ} = 233.1^{\circ}$$

$$53.1^{\circ} = 233.1^{\circ}$$

$$288.1^{\circ}$$

$$\cos \theta = \frac{-2}{3}$$
 $\cos(-\frac{2}{3}) = 131.8^{\circ}$

$$5\ln^{2}\theta + \cos\theta = 0 \qquad \left[0^{\circ}, 360^{\circ}\right]$$

$$1 - \cos^{2}\theta + \cos\theta = 0$$

$$0 - \cos^{2}\theta - \cos\theta - 1$$

$$5\ln^{2}\theta + \cos^{2}\theta = 1$$

$$5\ln^{2}\theta + \cos^{2}\theta = 1$$

$$5\ln^{2}\theta = 1 - \cos^{2}\theta$$

$$2\ln^{2}\theta + 2\ln^{2}\theta = 1$$

$$2\ln^{2}\theta + 2\ln^{2}\theta =$$