

§8.8 Solving Trigonometric Equations (II)

REMEMBER YOU KNOW ALGEBRA !

Example 1 Solve the equation: (Quadratic in Form)

$$2 \sin^2 \theta - 3 \sin \theta + 1 = 0 \quad 0 \leq \theta < 2\pi$$

Example 2 Solve the equation: (Using Trig Identities)

$$3 \cos \theta + 3 = 2 \sin^2 \theta \quad 0 \leq \theta < 2\pi$$

Example 3 Solve the equation: (Using Trig Identities)

$$\cos(2\theta) + 3 = 5 \cos \theta \quad 0 \leq \theta < 2\pi$$

Example 4 Solve the equation: (Using Trig Identities)

$$\sin \theta \cos \theta = \frac{-1}{2} \quad 0 \leq \theta < 2\pi$$