§7.8 Solving Trigonometric Equations (II)

REMEMBER YOU KNOW ALGEBRA !

Example 1 Solve the equation: (Quadratic in Form)

$2\sin^2\theta - 3\sin\theta + 1 = 0 \qquad 0 \le \theta < 2\pi$

Example 2 Solve the equation: (Using Trig Identities)

$3\cos\theta + 3 = 2\sin^2\theta \qquad 0 \le \theta < 2\pi$

Example 3 Solve the equation: (Using Trig Identities)

$\cos(2\theta) + 3 = 5\cos\theta \qquad 0 \le \theta < 2\pi$

Example 4 Solve the equation: (Using Trig Identities)

$\cos^2\theta + \sin\theta = 2 \qquad 0 \le \theta < 2\pi$

Example 5 Solve the equation: (Using Trig Identities)

$$\sin\theta\cos\theta = \frac{-1}{2} \qquad 0 \le \theta < 2\pi$$