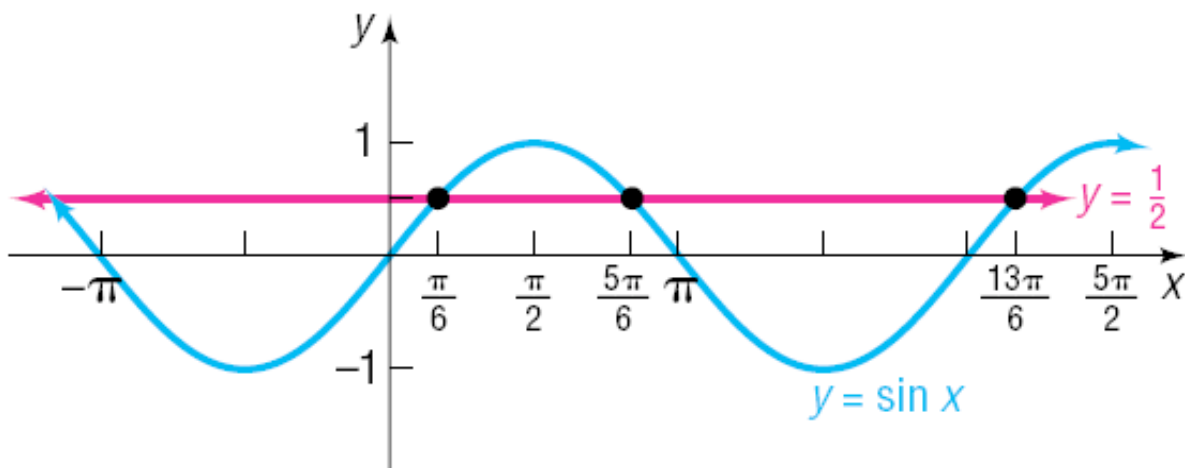# §7.7 Solving Trigonometric Equations (I)
REMEMBER YOU KNOW ALGEBRA !

Example 1   Determine if $\theta = \dfrac{\pi}{4}$ is a solution of

the equation $\sin\theta = \dfrac{1}{2}$.   Is $\theta = \dfrac{\pi}{6}$ a solution ?

Example 2   Solve the equation: $\cos\theta = \dfrac{1}{2}$

Give a general formula for **ALL** the solutions.
List 8 of the solutions.

Example 3   Solve the equation: $2\sin\theta + \sqrt{3} = 0,$

$0 \le \theta < 2\pi$

Example 4   Solve the equation: $\sin(2\theta) = \dfrac{1}{2}$,

$0 \le \theta < 2\pi$

Example 5   Solve the equation: $\tan\left(\theta - \dfrac{\pi}{2}\right) = 1$,

$0 \le \theta < 2\pi$