## 8-5 Solving More Difficult Trigonometric Equations

Objective: To use trigonometric identities to solve equations.

<u>Warm-up</u>

Solve the equation.

1. 
$$x^2 = -3x + 4$$
 2.  $x^2 = x$  3.  $4x^2 - 7 = -6$ 

Solve for  $0^{\circ} \le \theta < 360^{\circ}$ . Give answers to the nearest tenth of a degree.

1.  $8\cos^2 - 3 = 1$ 2.  $\cos^2 \theta - 3\sin \theta = 3$  Solve for  $0 \le x < 2\pi$ . Give answers to the nearest hundredth of a radian.

3.  $\sec x \sin x = 2 \sin x$ 4.  $\sin x - \cos x = 0$ 

5.  $3\sin x = \cos x$