## 8-5 Solving More Difficult Trigonometric Equations

Objective: To use trigonometric identities to solve equations.
Warm-up
Solve the equation.

1. $x^{2}=-3 x+4 \quad$ 2. $x^{2}=x \quad$ 3. $4 x^{2}-7=-6$

Solve for $0^{\circ} \leq \theta<360^{\circ}$. 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 $0 \leq x<2 \pi$. Give answers to the nearest hundredth of a radian.
3. $\sec x \sin x=2 \sin x$
4. $\sin x-\cos x=0$
5. $3 \sin x=\cos x$

