

Name: _____

Date: _____

Learning Goal 6.1

Using identities to reduce complexity in expressions and solve equations.

More Questions

1. Solve each equation algebraically over the domain $0 \leq x < 2\pi$. Give exact answers where possible and round to the nearest hundredth otherwise.
- a. $4 \sin^2 x - 1 = 0$ b. $\sin^2 x - \sin x = 0$ c. $\sin 2x - 1 = \cos 2x$
- d. $2 \sin^2 x - 3 \cos 2x = 3$ e. $\cos x + 1 = 2 \sin^2 x$ f. $\sec^2 x + 5 \sec x + 6 = 0$