

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Learning Goal 4.2**

Solving first- and second-degree equations over restricted domains and all real numbers.

**More Questions**

1. Solve the following trigonometric equation on the specified domain for exact value(s) of  $\theta$ , where possible. Otherwise round your answers to the nearest hundredth.
  - a.  $\cos^2 \theta - 1 = 0, 0^\circ \leq \theta < 360^\circ$
  - b.  $\sin^2 \theta + \sin \theta - 2 = 0, 0 \leq \theta < 2\pi$
  - c.  $\sec^2 x - 4 = 0, 0 \leq x < 2\pi$
  - d.  $3 \tan^2 x - \tan x = 4, -\pi \leq x < 2\pi$