Chapter 4

Section 4.4 Introduction to Trigonometric Equations Day 1

Trigonometry and the Unit Circle

Name:	Date:

Learning Goal 4.2 Solving first- and second-degree equations over restriction domains and all real numbers.	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 θ , where possible. Otherwise round your answers to the nearest hundredth.

a.
$$7\cos\theta + 5 = 2 - 3\cos\theta$$
, $0^{\circ} \le \theta < 360^{\circ}$

b.
$$17 + 3 \cot \theta = 29, -2\pi \le \theta \le 2\pi$$

c.
$$4 \csc x - 5 = 3, -180^{\circ} \le x < 360^{\circ}$$

d.
$$7 \cot \theta - 4 = 6 \cot \theta - 5, 0 \le \theta < 4\pi$$