7.6 Solving Quadratic Trigonometric Equations

"I can solve for the unknown angle(s) in any quadratic trigonometric equation. I realize that I may need to apply previously established identities to do so. I can apply what I have learned in unfamiliar settings."

Ex. 1: Solve on $0 \leq x \leq 2\pi$. Round all final answers to the nearest hundredth.

$$2\sec^2 x - 5\tan x = 5$$