

APRIL 18, 2013

Statement of Accomplishment

WITH DISTINCTION

SHADAJ LADDAD

Solving Trigonometric Equations, Part 3

Ex 1: Find all solutions of the following equation.
 $\tan\theta - \sqrt{3} = 0$

$\tan\theta = \sqrt{3}$

$\tan\theta = \frac{\sin\theta}{\cos\theta} = \frac{y}{x} = \sqrt{3}$

$\frac{\sqrt{3}}{1} = \sqrt{3}$

$\frac{-\sqrt{3}}{-1} = \sqrt{3}$

$\theta = \frac{\pi}{3}, \frac{2\pi}{3}$, or any of their coterminal angles

$\theta = \frac{\pi}{3} + 2k\pi, k \in \mathbb{Z}$

$\theta = \frac{2\pi}{3} + 2k\pi, k \in \mathbb{Z}$

$\theta = \frac{\pi}{3} + k\pi, k \in \mathbb{Z}$

Pre-Calculus

This college-level Pre-calculus course provides students a solid foundation in algebra and trigonometry, with an emphasis on understanding the properties of linear, piece-wise, exponential, logarithmic, and trigonometric functions.

Sarah Eichhorn

DR. SARAH E. EICHHORN
LECTURER, DEPARTMENT OF MATHEMATICS
UNIVERSITY OF CALIFORNIA, IRVINE

Rachel Lehman

DR. RACHEL LEHMAN
LECTURER, DEPARTMENT OF MATHEMATICS
UNIVERSITY OF CALIFORNIA, IRVINE

"PLEASE NOTE: THE ONLINE OFFERING OF THIS CLASS DOES NOT REFLECT THE ENTIRE CURRICULUM OFFERED TO STUDENTS ENROLLED AT THE UNIVERSITY OF CALIFORNIA, IRVINE. THIS STATEMENT DOES NOT AFFIRM THAT THIS STUDENT WAS ENROLLED AS A STUDENT AT THE UNIVERSITY OF CALIFORNIA, IRVINE IN ANY WAY. IT DOES NOT CONFER A UNIVERSITY OF CALIFORNIA, IRVINE GRADE; IT DOES NOT CONFER UNIVERSITY OF CALIFORNIA, IRVINE CREDIT; IT DOES NOT CONFER A UNIVERSITY OF CALIFORNIA, IRVINE DEGREE; AND IT HAS NOT VERIFIED THE IDENTITY OF THE STUDENT."