

APRIL 18, 2013

# Statement of Accomplishment

## MATTEO BELLETTI

**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.

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