

Math 111, Trigonometric Equation Problems

Darin Comeau, Section 4

Here are some additional problems where you solve trigonometric equations. For each of the below equations, find all x that make the statement true. Refer to the online notes for some worked examples.

1. $\sin x \tan x = \sin x, x \in [0, 2\pi]$

2. $\tan^2 x + \tan x - 2 = 0$

3. $\cos(2x) = \cos x$

4. $4 \sin x \cos x = \sqrt{3}$

5. $\cos 2x = 2(\sin x - 1)$