

Solving Trigonometric Equations

Solve each equation on the interval $0 \leq x \leq 2\pi$.

1) $\tan^2 x + \tan x(\sqrt{3} + 1) + \sqrt{3} = 0$

2) $\cot^4 x = 4 \csc^2 x - 7$

3) $\sec^2 x - \sec x$

$= 6 \sin x$

5) $\cos 2x = \cos x$

$\sqrt{2} \csc x + 2 = 0$

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