

Solving Trigonometric Equations

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

1) $2 \cos 2x \sec 2x \sin 3x = -\sqrt{3}$

2) $3(\cot x + 1) = \tan x + 3$

3) $\frac{3 \sec^2 x}{2} = 2 \tan x$

$\sin x = 13 = 12$

5) $12 \sec x = -4$

$\cos x = 0$

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1) $2 \cos 2x \sec 2x \sin 3x = -\sqrt{3}$

2) $3(\cot x + 1) = \tan x + 3$

$\frac{4\pi}{9}, \frac{5\pi}{9}$

$\frac{\pi}{3}, \frac{5\pi}{3}$

PREVIEW

3) $\frac{3 \sec^2 x}{2} = 2 \tan x$

$\frac{\pi}{3}, \frac{5\pi}{3}$

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$\frac{\pi}{3}, \frac{2\pi}{3}, \frac{4\pi}{3}$

$\frac{2\pi}{15}, \frac{\pi}{6}$

5) $12 \sec x = -4$

$\frac{\pi}{2}, \frac{3\pi}{2}$

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$\frac{5\pi}{6}, \frac{11\pi}{6}$

$\frac{\pi}{4}, \frac{5\pi}{4}$