

Name : \_\_\_\_\_

L2S3

## Solving Trigonometric Equations

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

1)  $2 \sin x + 3 = \frac{7 + 2 \sin x}{2}$

2)  $\csc^2 x \tan x = 4 \cot x$

3)  $2 \cot^2 x \sin^2 x$

$\csc = 2 \sec 7x$

5)  $3 \sec x \sin x =$

$= 0$

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

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

# PREVIEW

3)  $2 \cot^2 x \sin^2 x$

$\csc = 2 \sec 7x$

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$\frac{\pi}{4}, \frac{3\pi}{4}, \frac{5\pi}{4}$

$\frac{\pi}{4}$

5)  $3 \sec x \sin x =$

$= 0$

$\frac{\pi}{6}, \frac{7\pi}{6}$

$0, \frac{2\pi}{3}$