

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

L2S2

## Solving Trigonometric Equations

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

1)  $2 \cos x - \sec x = 0$

2)  $1 = 2 \sin 2x$

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

$= 2(\cot x + 1)$

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5)  $\frac{3}{\cos^2 x} = \frac{4}{\cot x}$

$\cot x = -2$

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

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$\frac{3\pi}{4}, \frac{7\pi}{4}$

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$\frac{\pi}{3}, \frac{2\pi}{3}, \frac{4\pi}{3}, \frac{5\pi}{3}$

$\frac{2\pi}{9}, \frac{4\pi}{9}$