

## Solving Trigonometric Equations

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

1)  $3 \sin^2 x - 6 \sin x + 3 = 0$

2)  $2 \sec^2 x - 4 \sec x + 2 = 0$

3)  $\csc^2 x + \csc x$

$= -\tan^2 x$

5)  $\cot^2 x - \sqrt{3} \cot x$

$\cos^2 x = 5$

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$\frac{\pi}{6}, \frac{\pi}{4}, \frac{7\pi}{6}, \frac{5\pi}{4}$

$\frac{\pi}{2}$