

7.6 Solving Quadratic Trigonometric Equations

<p>A Quadratic Equations Some trigonometric equations lead to a quadratic equation.</p>	<p>Ex 1. Solve the following trigonometric equations.</p> <p>a) $2 \sin x = 3 + 2 \csc x$</p> <p>b) $\sin x + 2 \cos^2 x = 1$</p> <p>c) $\cos \frac{x}{2} = 1 + \cos x$</p>
<p>B Cubic Equations Some trigonometric equations lead to a cubic equation.</p>	<p>Ex 2. Solve the following trigonometric equation.</p> $4 \cos x \sin 2x + 3 = 4 \cos^2 x + 6 \sin x$

Reading: Nelson Textbook, Pages 429-435

Homework: Nelson Textbook, Page 436: #5, 7, 8, 10, 18, 19, 20