

§5.3 Solving Trigonometric Equations

REMEMBER YOU KNOW ALGEBRA !

Example 1 (Collecting like terms)

$$\sin x + \sqrt{2} = -\sin x$$

Example 2 (Extracting Square Roots)

$$3\tan^2 x - 1 = 0$$

Example 3 (Factoring)

$$\cot x \cos^2 x = 2 \cot x$$

Example 4 (Quadratic Type)

$$2\sin^2 x + 3\cos x - 3 = 0$$

Example 5 (Multiple Angles)

$$2\cos 3t - 1 = 0$$

Example 6 (Multiple Angles)

$$3\tan \frac{x}{2} + 3 = 0$$

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