

Solving Trigonometric Equations (Part 2)

Trigonometry

Solving Trigonometric Equations Using Fundamental Identities

Find the exact solutions on $[0, 2\pi)$.

1. $\tan^2 t = 3 \sec t$

2. $\sin^2 x - \cos^2 x - \sin x = 0$

3. $12 \sin^2 t + \cos t - 6 = 0$

Solving Trigonometric Equations with Multiple Angles

Solve the following equations on the interval $[0, 2\pi)$

1. $2 \sin(3\theta) = 1$

2. $2 \sin(\pi\theta) = 1$

3. $\cos 2\theta = -\frac{\sqrt{2}}{3}$