

Exercise Set 5.5

Practice Exercises

In Exercises 1–10, use substitution to determine whether the given x -value is a solution of the equation.

- $\cos x = \frac{\sqrt{2}}{2}, \quad x = \frac{\pi}{4}$
- $\tan x = \sqrt{3}, \quad x = \frac{\pi}{3}$
- $\sin x = \frac{\sqrt{3}}{2}, \quad x = \frac{\pi}{6}$
- $\sin x = \frac{\sqrt{2}}{2}, \quad x = \frac{\pi}{3}$
- $\cos x = -\frac{1}{2}, \quad x = \frac{2\pi}{3}$
- $\cos x = -\frac{1}{2}, \quad x = \frac{4\pi}{3}$
- $\tan 2x = -\frac{\sqrt{3}}{3}, \quad x = \frac{5\pi}{12}$
- $\cos \frac{2x}{3} = -\frac{1}{2}, \quad x = \pi$
- $\cos x = \sin 2x, \quad x = \frac{\pi}{3}$
- $\cos x + 2 = \sqrt{3} \sin x, \quad x = \frac{\pi}{6}$

In Exercises 11–24, find all solutions of each equation.

- $\sin x = \frac{\sqrt{3}}{2}$
- $\cos x = \frac{\sqrt{3}}{2}$
- $\tan x = 1$
- $\tan x = \sqrt{3}$
- $\cos x = -\frac{1}{2}$
- $\sin x = -\frac{\sqrt{2}}{2}$
- $\tan x = 0$
- $\sin x = 0$
- $2 \cos x + \sqrt{3} = 0$
- $2 \sin x + \sqrt{3} = 0$
- $4 \sin \theta - 1 = 2 \sin \theta$
- $5 \sin \theta + 1 = 3 \sin \theta$
- $3 \sin \theta + 5 = -2 \sin \theta$
- $7 \cos \theta + 9 = -2 \cos \theta$

Exercises 25–38 involve equations with multiple angles. Solve each equation on the interval $[0, 2\pi)$.

- $\sin 2x = \frac{\sqrt{3}}{2}$
- $\cos 2x = \frac{\sqrt{2}}{2}$
- $\cos 4x = -\frac{\sqrt{3}}{2}$
- $\sin 4x = -\frac{\sqrt{2}}{2}$
- $\tan 3x = \frac{\sqrt{3}}{3}$
- $\tan 3x = \sqrt{3}$
- $\tan \frac{x}{2} = \sqrt{3}$
- $\tan \frac{x}{2} = \frac{\sqrt{3}}{3}$
- $\sin \frac{2\theta}{3} = -1$
- $\cos \frac{2\theta}{3} = -1$
- $\sec \frac{3\theta}{2} = -2$
- $\cot \frac{3\theta}{2} = -\sqrt{3}$

Exercises 39–52 are in form. Solve each equation.

- $2 \sin^2 x - \sin x = 0$
- $2 \sin^2 x + \sin x = 0$
- $2 \cos^2 x + 3 \cos x = 0$
- $2 \sin^2 x = \sin x$
- $\sin^2 \theta - 1 = 0$
- $4 \cos^2 x - 1 = 0$
- $9 \tan^2 x - 3 = 0$
- $\sec^2 x - 2 = 0$

In Exercises 53–62, solve each equation on the interval $[0, 2\pi)$.

- $(\tan x - 1)(\cos x) = 0$
- $(\tan x + 1)(\sin x) = 0$
- $(2 \cos x + \sqrt{3})(\sin x) = 0$
- $(2 \cos x - \sqrt{3})(\sin x) = 0$
- $\cot x(\tan x - 1) = 0$
- $\sin x + 2 \sin x = 0$
- $\tan^2 x \cos x = 0$

In Exercises 63–84, solve each equation on the interval $[0, 2\pi)$.

- $2 \cos^2 x + \sin x = 0$
- $\sin^2 x - 2 \cos x = 0$
- $4 \sin^2 x + 4 \cos x = 0$
- $4 \cos^2 x = 5 - 4 \cos x$
- $\sin 2x = \cos x$
- $\cos 2x = \cos x$
- $\cos 2x + 5 \cos x = 0$
- $\sin x \cos x = 0$
- $\sin x + \cos x = 0$
- $\sin\left(x + \frac{\pi}{4}\right) + \cos\left(x + \frac{\pi}{4}\right) = 0$
- $\sin\left(x + \frac{\pi}{3}\right) + \cos\left(x + \frac{\pi}{3}\right) = 0$
- $\sin 2x \cos x + \cos 2x \sin x = 0$
- $\sin 3x \cos 2x + \cos 3x \sin 2x = 0$

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