

5.3 Solving Trigonometric Equations

Name:

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P 11. Solve

$$2 \cos x + 1 = 0$$

P 15. Solve

$$3 \sec^2 - 4 = 0$$

P 18. Solve

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

P 22. Solve

$$\tan^2(3x) = 3$$

P 25. Solve

$$\cos^3 x = \cos x$$

on the interval $[0, 2\pi)$.

P 34. Solve

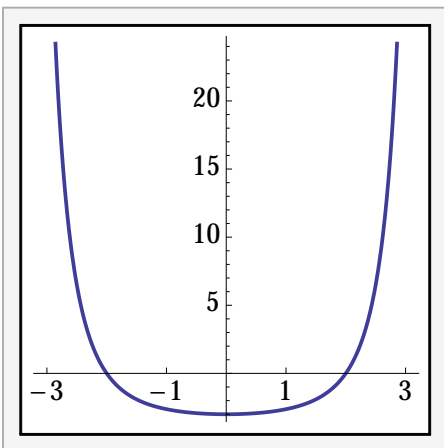
$$2 \sin^2 x + 3 \sin x + 1 = 0$$

P 38. Solve

$$\sin x - 2 = \cos x - 1$$

P 48. Find the x and y -intercepts of the graph of

$$y = \sec^4\left(\frac{\pi x}{8}\right) - 4$$



P 61. Solve

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

on the interval $[0, 2\pi)$.