

Solve for the unknown variable. Give all of the exact solutions on the interval of  $[0, 2\pi)$ .

$$\tan^2\theta + \tan\theta = 0$$

$$\sin 3\theta = -1$$

$$2\sin^2\theta - 1 = 0$$

$$2\sin^2\theta - \sin\theta - 1 = 0$$

$$\sec^2x + \sec x - 2 = 0$$

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

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

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