SOLVING QUADRATIC TRIGONOMETRIC EQUATIONS

1 Solve for values between 0 and 2π inclusive:

(a) $\tan^2 x - 1 = 0$ **(b)** $\sin^2 x - \sin x = 0$ **(c)** $\cos^2 \theta - 2\cos \theta + 1 = 0$

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3 Solve for values between 0 and 2π inclusive:

(a) $2\cos^2\theta - 3\cos\theta - 2 = 0$ **(b)** $2\cos^2\theta + \sin\theta = 1$

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6 Solve for $0 \leq \theta \leq 2\pi$: **(a)** $3\tan^3\theta - 3\tan^2\theta - \tan\theta + 1 = 0$ **(b)** $\cos^3\theta - 2\cos^2\theta + \cos\theta = 0$