Use Pythagorean identities to find all solutions to the following trigonometric equation.

\[ \sin^2 \theta = \cos \theta - \cos^2 \theta \]

\[ 1 - \cos^2 \theta = \cos \theta - \cos^2 \theta \]

\[ \cos \theta = 1 \]

\[ \theta = 0 \pm 2\pi n \]