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$$2 \sin \frac{t}{2} - 1 = 0 \Rightarrow \sin \frac{t}{2} = \frac{1}{2} \Rightarrow \frac{t}{2} = \sin^{-1} \frac{1}{2}$$

$$\Rightarrow \frac{t}{2} = \frac{\pi}{6} + 2\pi n, \frac{5\pi}{6} + 2\pi n$$

$$\Rightarrow t = \frac{\pi}{3} + 4\pi n, \frac{5\pi}{3} + 4\pi n$$