Solve over $[0, 2\pi)$.

$4\cos^2 x - 3 = 0$

2

Solve over $[0, 2\pi)$.

$\cos^3 x = \cos x$

3

Solve over $[0, 2\pi)$.

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

4

Solve over $[0, 2\pi)$.

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

5