

Solve the following equations over $[0, 2\pi)$.

1. $\csc^2 x + 2 \csc x = 0$

2. $\cos^2 x - \cos x - 2 = 0$

3. $2 \cos x \sin x = \cos x$

4. $2 = \sec x + \sec^2 x$

5. $2 \sin^2 x + 5 \sin x = 3$

6. $\tan^2 x \sin x = \sin x$

7. $\sin x + \sin x \tan x = 0$

8. $\sec x \sin x - 2 \sin x = 0$

9. $\cos^2 x - \cot x \cos^2 x = 0$

10. $3 \csc^2 x + 4 \csc x - 4 = 0$

11. $4 \cos^4 x - 5 \cos^2 x + 1 = 0$

12. $4 \sin^4 x + \sin^2 x - 3 = 0$