

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

1. $4\sin x + 2 = 0$

2. $2\cos x + \sqrt{3} = 0$

3. $\csc x = 2$

4. $4\sin^2 x - 1 = 0$

5. $4\sec x - 8 = 0$

6. $\cos x(\cos x - 1) = 0$

7. $\cot x - \sqrt{3} = 0$

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

9. $2\tan^2 x - 6 = 0$

10. $3\cot^2 x - 1 = 0$

11. $\cos x = \sin x$

12. $4\sin^2 x + 9 = 12$