

Find all the solutions for x on the interval $[0, 2\pi)$:

1. $2\cot x + 1 = -1$

2. $\tan^2 x + 2 = 5$

3. $3\sec x + 1 = \sec x + 3$

4. $(\cot x - 1)(\sqrt{3}\cot x + 1) = 0$

5. $(\csc x + 2)(\csc x - \sqrt{2}) = 0$

6. $\cos^2 x + 2\cos x + 1 = 0$

$$7. \cos^2 x - \sqrt{3} \cos x = 0$$

$$8. -2 \sin^2 x = 3 \sin x + 1$$

$$9. 2 \cos^2 x - \cos x = 1$$

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

$$11. 3 \csc^2 x = 4$$

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

$$13. \tan^2 x + 2\tan x + 1 = 0$$

$$14. \sin^2 x + \sin x = 0$$

$$15. 2\sin^2 x - 1 = 0$$

$$16. 3\cot^2 x = 1$$

$$17. 2\cos^2 x = 1$$

$$18. \csc^2\left(\frac{x}{2}\right) - 4 = 0$$