

Solve the equations for  $0 \leq x < 2\pi$

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

2.  $\sqrt{3}\sec x - 2 = 0$

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

4.  $\csc^2 x - 2 = 0$

5.  $4\cos^2 x - 3 = 0$

6.  $\tan^2 x - 1 = 0$

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

8.  $2\sin^2 x + 3\sin x + 1 = 0$