

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

1. $\sin x \tan x = -\tan x$

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

3. $(\cos^2 x - 1)(\cot x + 1) = 0$

4. $\cos x(\sec x - 2) = 0$

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

6. $\cos^2 x + 2\cos x - 3 = 0$

7. $\cos x \tan x = \sqrt{3} \cos x$

8. $\cos x \sec x + 2\cos x = 0$

9. $\sec x \csc x = \csc x$

10. $(\sin x + 1)(\sec x - 2) = 0$

11. $\cot x \tan x = -\sqrt{3} \cot x$

12. $3 \cot x \cos x - \sqrt{3} \cos x = 0$