

Find all solutions of the equation in the interval $[0, 2\pi)$. Use separate sheet of paper, if necessary.

1. $\tan \theta + \sqrt{3} = 0$

7. $4\sin^2 x = 3$

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

8. $2\sin \theta \cos \theta = \sqrt{2} \cos \theta$

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

9. $\tan x - \sqrt{3} = 2 \tan x$

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

10. $\cos x + 2 = 3\cos x$

5. $\tan x \sec x = \tan x$

11. $2\sin^2 x + 3\sin x + 1 = 6$

6. $4\cos^2 x - 1 = 0$

12. $2\cos^2 x = 1$

13. $2\sec^2 x - 1 = 0$

18. $2\tan^2 x - \sec^2 x + 3 = 1 - 2\tan x$

14. $2\sin 2\theta + \sqrt{3} = 0$

19. $2\cos(2x) - \sqrt{3} = 0$

15. $3\tan\frac{\theta}{2} - \sqrt{3} = 0$

20. $3 - 3\sin x - 2\cos^2 x = 0$

16. $3\tan 2\theta + 3 = 0$

17. $2\sin^2 x - 7\sin x + 3 = 0$