

Equacions trigonomètriques

1. $\cos x = \frac{\sqrt{2}}{2}$

2. $\sin 3x = 1$

3. $\operatorname{tg} 3x = 0$

4. $\cos x = \operatorname{cotg} x$

5. $\sin x + \cos x = 1$

6. $\sin \left(x + \frac{\pi}{2} \right) = 1$

7. $2 \cos x + 1 = 0$

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

9. $2 \sin x = \operatorname{tg} x$

10. $2 \cos^2 x = \cos 2x + 1$

11. $\cos x + \sin 2x = (\sin x + \cos x)^2$

12. $\operatorname{tg} x = -\sqrt{3}$

13. $\operatorname{cotg} x = -1$

14. $\sec x = -2$

15. $\operatorname{cosec} x = 2$

16. $\operatorname{tg}^2 x - 3 \operatorname{tg} x + 2 = 0$

17. $\cos x = -1$

18. $\operatorname{tg} x = \sqrt{3}$

19. $\sec x = 1$

20. $\sin x + \cos^2 x = \frac{5}{4}$

21. $\cos x = 1 - \sin x$

22. $2 \sin^2 x - \operatorname{tg} x = 0$

23. $\sin x + \cos x = \frac{1}{\sqrt{2}}$

24. $\frac{\operatorname{cotg} x + \operatorname{tg} x}{\operatorname{cotg} x - \operatorname{tg} x} = 2$

25. $\begin{cases} 3 \sin x + \cos x = 2 \\ \sin x - 3 \cos x = -1 \end{cases}$

26. $\operatorname{tg} x = 2$

27. $\operatorname{tg} x = \frac{\sqrt{3}}{3}$

28. $\sin x = \cos \left(x + \frac{\pi}{3} \right)$

29. $\cos^2 x = \sin^2 x$

30. $6 \cos^2 x + \cos 2x = 1$