Solving Trig Equations

Solve the trig equations. Complete 10 questions and do the rest for practice. (Watch the video regarding Solving Trig Equations)

1. $2\sin\theta = \sqrt{3}$

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

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

4. $2\cos\theta - \sqrt{2} = 0$

5. $2\cos\theta + 1 = 0$

6. $2\sin\theta - \sqrt{3} = 0$

7. $2\sin\theta - 1 = 0$

8. $5\tan\theta - 5 = 0$

9. $\cos\theta + 1 = 0$

10. $2\cos\theta - \sqrt{3} = 0$

11. $\cos\theta(\tan\theta - \sqrt{3}) = 0$

12. $2\sin\theta + \sqrt{3} = 0$

13. $\sqrt{2}\sin\theta = 1$

14. $\sin\theta - 2\sin\theta\cos\theta = 0$

15. $\sin\theta = \cos\theta$

16. $2\cos\theta + 4 = 5$

17. $2\sin\theta + 4 = 5$

18. $5\cos\theta - \sqrt{3} = \cos\theta$

19. $3\tan\theta - \sqrt{3} = 0$

20. $\sqrt{3}\tan\theta - \sqrt{3} = 0$

Solve the trig equations. Complete 10 questions and do the rest for practice. (Watch the video regarding Solving Trig Equations using U-Substitution)

21. $2sin^2\theta - 1 = 0$

22. $3tan^2\theta - 1 = 0$

23. $2sin^2\theta - 3sin\theta + 1 = 0$

24. $2sin\theta cos\theta - sin\theta = 0$

25. $sin^2\theta + sin\theta = 0$

26. $2cos^2\theta - cos\theta - 1 = 0$

27. $2cos^4\theta - 3cos^2\theta + 1 = 0$

28. $2sin^2\theta - 1 = 0$

29. $sin^2\theta = 0$

30. $2cos^2\theta - cos\theta = 0$

31. $4sin^4\theta + 3sin^2\theta - 1 = 0$

32. $4cos^4\theta - 3 = 0$

33. $cos^3\theta = cos\theta$

34. $tan^4\theta - 3 = 0$

35. $4sin^2\theta - 2 = 0$

36. $16cos^2\theta - 8 = 0$

37. $2cos^2\theta - 3cos\theta + 1 = 0$