Prove the following trigonometric identities.

1. $\sec\theta - \tan\theta\sin\theta = \cos\theta$

2. $\cot^2\alpha(1 - \cos^2\alpha) = \cos^2\alpha$

3. $\dfrac{1 + \sec\beta}{\sin\beta + \tan\beta} = \csc\beta$

4. $\dfrac{1 + \sin\gamma}{\cos\gamma} = \dfrac{\cos\gamma}{1 - \sin\gamma}$

5. $\sin^2 t - \cos^2 t = 1 - 2\cos^2 t$

6. $\dfrac{\tan\gamma}{\sec\gamma - 1} = \dfrac{\sec\gamma + 1}{\tan\gamma}$

7. $\dfrac{\sin\theta - \sin\theta\cos\theta}{\sin\theta + \sin\theta\tan\theta} = \dfrac{1 - \cos\theta}{1 + \tan\theta}$

8. $\dfrac{\cos^2\alpha}{1 - \sin\alpha} = 1 + \sin\alpha$

9. $\sec^2 t \csc^2 t = \sec^2 t + \csc^2 t$

10. $\dfrac{\sec x - \csc x}{\sec x + \csc x} = \dfrac{\tan x - 1}{\tan x + 1}$

11. $1 - \dfrac{\cos^2\beta}{1 + \sin\beta} = \sin\beta$

12. $\dfrac{\sin\gamma + \tan\gamma}{\cot\gamma + \csc\gamma} = \sin\gamma\tan\gamma$

13. $\dfrac{\sin\alpha\cos\alpha}{\cos^2\alpha - \sin^2\alpha} = \dfrac{\tan\alpha}{1 - \tan^2\alpha}$

14. $\dfrac{\sin\theta - \cos\theta}{\cos\theta} + 1 = \tan\theta$

15. $\dfrac{1}{\tan\theta} + \tan\theta = \sec\theta\csc\theta$

16. $\dfrac{1 + \cos\gamma}{1 - \cos\gamma} = \dfrac{\sec\gamma + 1}{\sec\gamma - 1}$

17. $\dfrac{\sin\gamma + \tan\gamma}{\sin\gamma} = 1 + \sec\gamma$

18. $\dfrac{\sec\beta + \csc\beta}{1 + \tan\beta} = \csc\beta$

19. $(1 - \sin\theta)(\sec\theta + \tan\theta) = \cos\theta$

20. $(\sec\gamma - \tan\gamma)^2 = \dfrac{1 - \sin\gamma}{1 + \sin\gamma}$

21. $\sin^4 t - \cos^4 t = 2\sin^2 t - 1$

22. $\dfrac{\cot\theta + \tan\theta}{\sin\theta\cos\theta} = \csc^2\theta\sec^2\theta$

23. $\dfrac{\cos\alpha}{1 - \cos^2\alpha} = \sec\alpha\tan\alpha$

24. $\dfrac{\tan\gamma}{1 + \tan^2\gamma} = \sin\gamma\cos\gamma$

25. $\dfrac{\tan^2\theta}{\sec\theta} = \sec\theta - \cos\theta$

26. $\cos t\cot t + \tan t = \sec t\csc t$

27. $\dfrac{\cos\alpha}{1 + \sin\alpha} + \dfrac{1 + \sin\alpha}{\cos\alpha} = 2\sec\alpha$

28. $\dfrac{\tan\theta - \cot\theta}{\tan\theta + \cot\theta} = \dfrac{\tan^2\theta - 1}{\sec^2\theta}$

29. $\dfrac{\cot\beta}{1 + \cot^2\beta} = \sin\beta\cos\beta$

30. $\dfrac{\tan\gamma + 1}{\sin\gamma + \cos\gamma} = \sec\gamma$

31. $\cos^2\psi - \sin^2\psi = \dfrac{1 - \tan^2\psi}{1 + \tan^2\psi}$

32. $\dfrac{\sin\mu}{1 + \cos\mu} = \csc\mu - \cot\mu$

33. $\cot^2\theta - \cos^2\theta = \cos^2\theta\cot^2\theta$

34. $\cos^4\psi - \sin^4\psi = \cos^2\psi - \sin^2\psi$

35. $\sin^3\alpha + \cos^3\alpha = (\sin\alpha + \cos\alpha)(1 - \sin\alpha\cos\alpha)$

36. $(\tan\psi + \cot\psi)^2 = \sec^2\psi + \csc^2\psi$

37. $(\sin\beta + \cos\beta)(\sec\beta - \csc\beta) = \tan\beta - \cot\beta$

38. $\dfrac{\sin\psi}{1 - \cos\psi} - \cot\psi = \csc\psi$

39. $\dfrac{\tan\mu\sin\mu}{\tan\mu + \sin\mu} = \dfrac{\tan\mu - \sin\mu}{\tan\mu\sin\mu}$

40. $\dfrac{\sec\theta + \csc\theta}{\tan\theta + \cot\theta} = \sin\theta + \cos\theta$

41. $\cos^2 t - \sin^2 t = \cot^2 t - \tan^2 t$

42. $\dfrac{\sin^2\alpha + \cos^2\alpha}{\sin\alpha + \cos\alpha} = \csc^2\alpha - \cot^2\alpha$

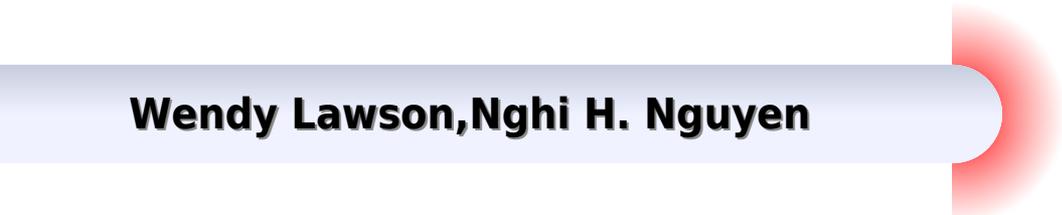43. $\dfrac{\cos^2\psi\sin^2\psi}{1 + \cos\psi} = \cos\psi - \cos^2\psi$

44. $\dfrac{\sin\beta}{1 + \cos\beta} + \dfrac{1 + \cos\beta}{\sin\beta} = 2\cot\beta\csc\beta$

45. $\dfrac{\sec\theta}{\cot\theta + \tan\theta} = \sin\theta$

46. $\sin^2 t + \sin^2 t\tan^2 t = \tan^2 t$

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Wendy Lawson,Nghi H. Nguyen

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