

Prove the following trigonometric identities.

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

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

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

$$4. \frac{1 + \sin \varphi}{\cos \varphi} = \frac{\cos \varphi}{1 - \sin \varphi}$$

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

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

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

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

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

$$10. \frac{\sec x + \cos x}{\sec x + \cos x} = \frac{\tan x + 1}{\tan x + 1}$$

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

$$12. \frac{\sin \varphi + \tan \varphi}{\cot \varphi + \csc \varphi} = \sin \varphi \tan \varphi$$

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

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

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

$$16. \frac{1 + \cos \omega}{1 - \cos \omega} = \frac{\sec \omega + 1}{\sec \omega - 1}$$

$$17. \frac{\sin \omega + \tan \omega}{\sin \omega} = 1 + \sec \omega$$

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

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

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

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

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

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

$$24. \frac{\tan \varphi}{1 + \tan^2 \varphi} = \sin \varphi \cos \varphi$$

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

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

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

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

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

$$30. \frac{\tan \varphi + 1}{\sin \varphi + \csc \varphi} = \sec \varphi$$

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

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

$$33. \cot^2 \theta + \csc^2 \theta = \csc^2 \theta \cot^2 \theta$$

$$34. \cos^4 \varphi + \sin^4 \varphi = \cos^2 \varphi + \sin^2 \varphi$$

$$35. \sin^2 \alpha + \cos^2 \alpha = (\sin \alpha + \cos \alpha)(1 - \sin \alpha \cos \alpha)$$

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

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

$$38. \frac{\sin \varphi}{1 - \cos \varphi} - \cot \varphi = \csc \varphi$$

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

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

$$41. \csc^2 t + \sec^2 t = \cot^2 t + \tan^2 t$$

$$42. \frac{\sin^2 \alpha + \cos^2 \alpha}{\sin \alpha + \cos \alpha} = \csc^2 \alpha + \sec^2 \alpha$$

$$43. \frac{\cos \varphi \sin^2 \varphi}{1 + \cos \varphi} = \cos \varphi - \cos^2 \varphi$$

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

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

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

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