

Prove the following trigonometric identities.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$34. \csc^2 \varphi - \sin^4 \varphi = \csc^2 \varphi - \sin^2 \varphi$$

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

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

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

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

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

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

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

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

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

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

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

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

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web oct 21 1974 flue gas desulfurization is commonly known as fgd and is the technology used for removing sulfur dioxide so<sub>2</sub> from the exhaust combustion flue gases of power plants that burn coal or oil to produce steam for the

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web the various flue gas desulfurization fgd technologies available in the market for the reduction of sulfur dioxide emissions are presented the process descriptions are discussed and the capital and operating costs of the various methods are presented

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web in the flue gas treatment systems in coal fired power plants wfgd systems are commonly installed downstream of the electrostatic precipitators sui et al citation 2016 and the pressure charging fans operating at positive pressure exhaust flue gas enters the wfgd system from the entrance which is located at the lower part of the tower

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limestone high grade limestone with 94 wt caco 3 content is used for producing gypsum with 93 wt purity but owing to the resource depletion of high grade limestone low grade limestone should be replaced as an alternative

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web jan 15 2022 desulfurization dry method semi dry method wet method 1 introduction in the industrial production of china the processing of phosphate rock volcanic eruptions kerosene combustion and aluminum smelting will lead to flue gas emissions containing a large amount of so<sub>2</sub> so<sub>2</sub> is a highly irritating gas

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