#### Prove the follwoing trigonometric identities.

1. 
$$\operatorname{sev} \theta = \tan \theta \sin \theta = \cos \theta$$

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

3, 
$$\frac{1 + \operatorname{and} \beta}{\operatorname{sin} \beta + \operatorname{tan} \beta} = \operatorname{rac} \beta$$

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

$$D_{c} \cdot \sin^2 t - \cos^2 t = 1 - 2\cos^2 t$$

$$6, \frac{\tan \gamma}{\cos \gamma - 1} = \frac{\cos \gamma + 1}{\tan \gamma}$$

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

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

$$0, \ \sec^2 t \cos^2 t = \sec^2 t + \csc^2 t$$

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

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

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

I9. 
$$(1 - \sin \theta)(\sec \theta + \tan \theta) = \cos \theta$$

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

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

22. 
$$\frac{\cot \theta + \tan \theta}{\sin \theta \cos \theta} - \cos^2 \theta \sin^2 \theta$$

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

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

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

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

28, 
$$\frac{\tan \theta - \cot \theta}{\tan \theta + \cot \theta} - \frac{\tan^2 \theta - 1}{\tan^2 \theta}$$

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

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

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

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

33. 
$$\cos^{\theta}\theta - \cos^{\theta}\theta = \cos^{\theta}\theta \cot^{\theta}\theta$$

34, 
$$\cos^4 \varphi - \sin^4 \varphi - \cos^2 \varphi - \sin^2 \varphi$$

35. 
$$\sin^5 \alpha + \cos^7 \alpha - (\sin \alpha + \cos \alpha)(1 - \sin \alpha \cos \alpha)$$

36. 
$$(\tan \varphi + \cot \varphi)^2 = \sin^2 \varphi + \cos^2 \varphi$$

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

30. 
$$\frac{\tan \mu \sin \mu}{\tan \mu + \sin \mu} = \frac{\tan \mu - \sin \mu}{\tan \mu \sin \mu}$$

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

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

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

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

44: 
$$\frac{\sin \beta}{1 + \cos \beta} + \frac{1 + \cos \beta}{\sin \beta} = 2 \cot \beta \sec \beta$$
 45:  $\frac{\cos \theta}{\cot \theta + \tan \theta} = \sin \theta$ 

15. 
$$\frac{\sec \theta}{\cot \theta + \tan \theta} = \sin \theta$$

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

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