

$$9. \quad \frac{\tan x + \cot x}{\sec^2 x}$$

$$10. \quad \frac{\sin x \cos x}{1 - \cos^2 x}$$

$$11. \quad (\sin x + \cos x)^2 + (\sin x - \cos x)^2$$

$$12. \quad \frac{\sec y + \csc y}{1 + \tan y}$$

$$13. \quad \frac{\tan^2 \theta}{\sec \theta + 1} + 1$$

$$14. \quad \frac{\cot^2 \theta}{1 + \csc \theta} + \sin \theta \csc \theta$$

15. $\cos^3 y + \cos y \sin^2 y$

16. $\sin^4 \theta + 2 \sin^2 \theta \cos^2 \theta + \cos^4 \theta$

17. $(\csc x - \cot x)(1 + \cos x)$

18. $(\sec^2 A - 1)(\csc^2 A - 1)(\cot^2 A + 1)$

19. $\frac{\sin \theta \cot \theta + \cos \theta}{2 \tan(90^\circ - \theta)}$

20. $\frac{\sin^4 \theta - \cos^4 \theta}{\sin^2 \theta - \cos^2 \theta}$