Chapter 5 — Trigonometric Functions

Trigonometric Functions Ex 5.1 Q1

$$LHS = \sec^4\theta - \sec^2\theta$$
$$= \sec^2\theta\left(\sec^2\theta - 1\right)$$
$$= \left(1 + \tan^2\theta\right)\tan^2\theta \qquad \left[\because \sec^2\theta = 1 + \tan^2\theta\right]$$
$$= \tan^2\theta + \tan^4\theta$$
$$= \tan^4\theta + \tan^2\theta$$
$$= RHS$$
$$LHS = RHS$$
$$\text{Proved}$$

Trigonometric Functions Ex 5.1 Q2

$$LHS = \sin^6\theta + \cos^6\theta$$
$$= \left(\sin^2\theta\right)^3 + \left(\cos^2\theta\right)^3$$
$$= \left(\sin^2\theta + \cos^2\theta\right)\left[\left(\sin^2\theta\right)^2 - \sin^2\theta\cos^2\theta + \left(\cos^2\theta\right)^2\right] \qquad \left(\because a^3 + b^3 = (a+b)\left(a^2 - ab + b^2\right)\right)$$
$$= \left(\sin^2\theta\right)^2 + \left(\cos^2\theta\right)^2 + 2\sin^2\theta\cos^2\theta - 2\sin^2\theta\cos^2\theta - \sin^2\theta\cos^2\theta$$

$$\left[\begin{array}{l}\text{adding and subtracting } 2\sin^2\theta\cos^2\theta \text{ and} \\ \text{using identity } \sin^2\theta + \cos^2\theta = 1\end{array}\right]$$

$$= \left(\sin^2\theta + \cos^2\theta\right)^2 - 3\sin^2\theta\cos^2\theta$$
$$= \left(\sin^2\theta + \cos^2\theta\right)^2 - 3\sin^2\theta\cos^2\theta$$
$$= 1^2 - 3\sin^2\theta\cos^2\theta \qquad \left(\because \sin^2\theta + \cos^2\theta = 1\right)$$
$$= 1 - 3\sin^2\theta\cos^2\theta$$
$$= RHS$$

$$\therefore \qquad LHS = RHS$$
$$\text{Proved}$$

Chapter 5 Trigonometric Functions Answers

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Chapter 5 Trigonometric Functions Answers:

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