

Chapter 5 – Trigonometric Functions

Trigonometric Functions Ex 5.1 Q1

$$\begin{aligned}
 \text{LHS} &= \sec^4 \theta - \sec^2 \theta \\
 &= \sec^2 \theta (\sec^2 \theta - 1) \\
 &= (1 + \tan^2 \theta) \tan^2 \theta && [\because \sec^2 \theta = 1 + \tan^2 \theta] \\
 &= \tan^2 \theta + \tan^4 \theta \\
 &= \tan^4 \theta + \tan^2 \theta \\
 &= \text{RHS} \\
 \text{LHS} &= \text{RHS} \\
 &\text{Proved}
 \end{aligned}$$

Trigonometric Functions Ex 5.1 Q2

$$\begin{aligned}
 \text{LHS} &= \sin^6 \theta + \cos^6 \theta \\
 &= (\sin^2 \theta)^3 + (\cos^2 \theta)^3 \\
 &= (\sin^2 \theta + \cos^2 \theta) \left[(\sin^2 \theta)^2 - \sin^2 \theta \cos^2 \theta + (\cos^2 \theta)^2 \right] && [\because a^3 + b^3 = (a+b)(a^2 - ab + b^2)] \\
 &= (\sin^2 \theta)^2 + (\cos^2 \theta)^2 + 2 \sin^2 \theta \cos^2 \theta - 2 \sin^2 \theta \cos^2 \theta - \sin^2 \theta \cos^2 \theta && \left[\begin{array}{l} \text{adding and subtracting } 2 \sin^2 \theta \cos^2 \theta \text{ and} \\ \text{using identity } \sin^2 \theta + \cos^2 \theta = 1 \end{array} \right] \\
 &= (\sin^2 \theta + \cos^2 \theta)^2 - 3 \sin^2 \theta \cos^2 \theta \\
 &= (\sin^2 \theta + \cos^2 \theta)^2 - 3 \sin^2 \theta \cos^2 \theta \\
 &= 1^2 - 3 \sin^2 \theta \cos^2 \theta && [\because \sin^2 \theta + \cos^2 \theta = 1] \\
 &= 1 - 3 \sin^2 \theta \cos^2 \theta \\
 &= \text{RHS} \\
 \therefore &\quad \text{LHS} = \text{RHS} \\
 &\text{Proved}
 \end{aligned}$$

Chapter 5 Trigonometric Functions Answers

Eric Connally



Chapter 5 Trigonometric Functions Answers:

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