

UNIT-3

(1)

Theorem 4.6.1. The set $L(U, V)$ of all L.T.s from $U \rightarrow V$ with the operations of addition and scalar multiplication defined by

$$(T_1 + T_2)(u) = T_1(u) + T_2(u) \quad \text{--- (A)}$$

$$(\alpha T_1)(u) = \alpha \cdot T_1(u) \quad \text{--- (B)}$$

is a vector space.

Proof : Sum of two Linear Maps :

let $T_1, T_2 : U \rightarrow V$ be two L.T.s

$$\begin{aligned} \therefore T_1(\alpha x + \beta y) &= \alpha T_1(x) + \beta T_1(y) \\ T_2(\alpha x + \beta y) &= \alpha T_2(x) + \beta T_2(y) \end{aligned} \quad \left. \begin{array}{l} \forall \alpha, \beta \in F \\ x, y \in U \end{array} \right\} \text{--- (C)}$$

$$\begin{aligned} \therefore (T_1 + T_2)(\alpha x + \beta y) &= T_1(\alpha x + \beta y) + T_2(\alpha x + \beta y) \quad [\text{by (A)}] \\ &= \alpha T_1(x) + \beta T_1(y) + \alpha T_2(x) + \beta T_2(y) \quad [\text{by (C)}] \\ &= \alpha \{T_1(x) + T_2(x)\} + \beta \{ \quad \} \\ &= \alpha \{(T_1 + T_2)(x)\} + \beta \{(T_1 + T_2)(y)\} \quad [\text{by (A)}] \end{aligned}$$

$$\therefore T_1 + T_2 \in L(U, V) \quad \neq$$

Scalar multiplication of a Linear Map :

$$\begin{aligned} (\alpha T_1)(\beta x + \gamma y) &= \alpha T_1(\beta x + \gamma y) \quad [\text{by (B)}] \\ &= \alpha \{ \beta T_1(x) + \gamma T_1(y) \} \quad [\text{by (C)}] \\ &= \alpha \beta T_1(x) + \alpha \gamma T_1(y) \\ &= \beta (\alpha T_1(x)) + \gamma (\alpha T_1(y)) \\ &= \beta \{(\alpha T_1)(x)\} + \gamma \{(\alpha T_1)(y)\} \quad [\text{by (B)}] \end{aligned}$$

$$\therefore \alpha T_1 \in L(U, V) \quad \neq$$

Algebra Unit 3 Linear Algebra L6 Answers

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