Linear Algebras
Motorix Representation of Linear Transformation del U(F) and V(F) are two vector
det U(F) and V(F) are two vector
Character Dillon Fr
T: U > V be a linear Transformation.
T: U > V be a linear Transformation. det B = { U1. U2. U3, Und and B = { V1. V2. V3, Vnd are two ordered
B = [VI.V_, V3,, Vn] are two ordered
basis for U and V xespectivley.
T(x) (V. also
Now if any $\alpha \in U \Rightarrow T(\alpha) \in V$, also $T(\alpha)$ can be represent by B
(a) can be depossers by
T(u1) = P1 = a11 V1 + a22 V2+ a13 V3++a1m V3
T(42) = B2 = a21 V1 + a22 V2 + a23 V3+ + a2m Vm
T(U3) = P3 = Q31 V1 + Q32 V2 + Q33 V3 + + Q3m Van
T/11 } B
T(un) = Pn = ani Vi +
[Tui)] [an an an] [V1]
$T(u_2) = a_{21} a_{22} - a_{2m} v_2$
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
[T(un)] an an ann Vnm
[T(un)] [ans ans ann [Vnm] Cofficient Matrin)