Programi Import rumpy as np from numpy emport lengly as la dy T(xy,z); Yelen (x-y +z, 2\*x +3\*y - (1/2) \* 2, si+y-2\*z) B, = np. aeray ([[-1,1,0], [s,-1,2],[1,2,1]) print l'The specified basis for the domain space is In", B1 B2 = np. alray ([[1,1,0], [0,0,1], [1,5,2]]) prent 11 The specified bosis for the wodomain space is In", i U. = T (-1,1,0) U3=T(1,2,1) Print I'l Evaluating Tat the victors of basis B1: "u, u, u, V12 da. 80/ve (Bz, T, U1) V2 2 da. solve (B2, T, U2) V3 2 Ua. Solve (B2, T, U3) M2 nparay ([N, V2, V3]) I rame formation us : \n", M.T) Prend l'The matrix of the linear

Name of Experiment
Experiment No Experiment Result
2 from sympy emport x
24 4 (1, (2 = Symbols (1)x 4 (1 (2)
A= Matrix ([[2,3], [4, -5]])
U, = np. alray ([1,-1])
br= np. array ([1,1])
V, = np. array ([1,6])
V2 = np. array ([0,1])
Tu, = A[0,0] * VI + A[10] * V2
Tuz 2 A[0,1]*V1+A[1,1]*V2
print l"The images of the ordered basis vectors in B1 under the transformation Texpressed using the basis vectors of
B2 ay, Tu1, Tu2)
eg = (1* U1+12* U2 - Esigy)
sol = solve (eq, (1, (2)did = True)
(1=sol [0] [(1]
[2= Sd[0][(2]
Print ('The 10-ordinates of any orbitrary vectors (or, y) war.  The basis B1 are; (1, 'and', (2)
7=(1* Tu] +(2* Tu2
and 1the leaves land in T
rector (249) in T(234)=1, tuple (7)
( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )
20/18/a
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