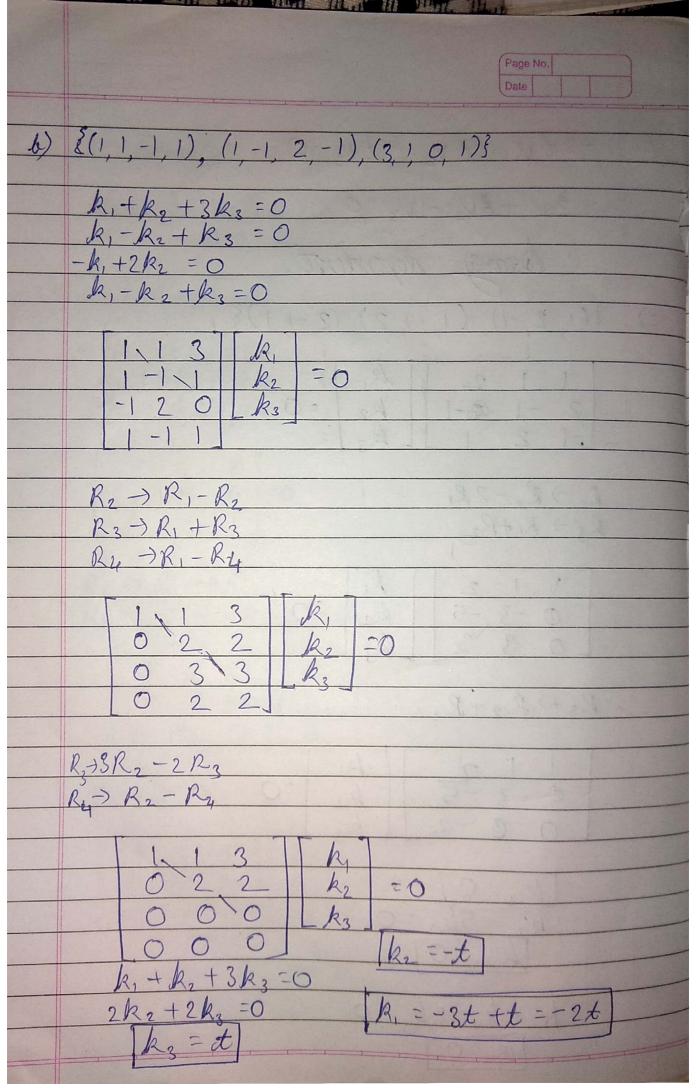
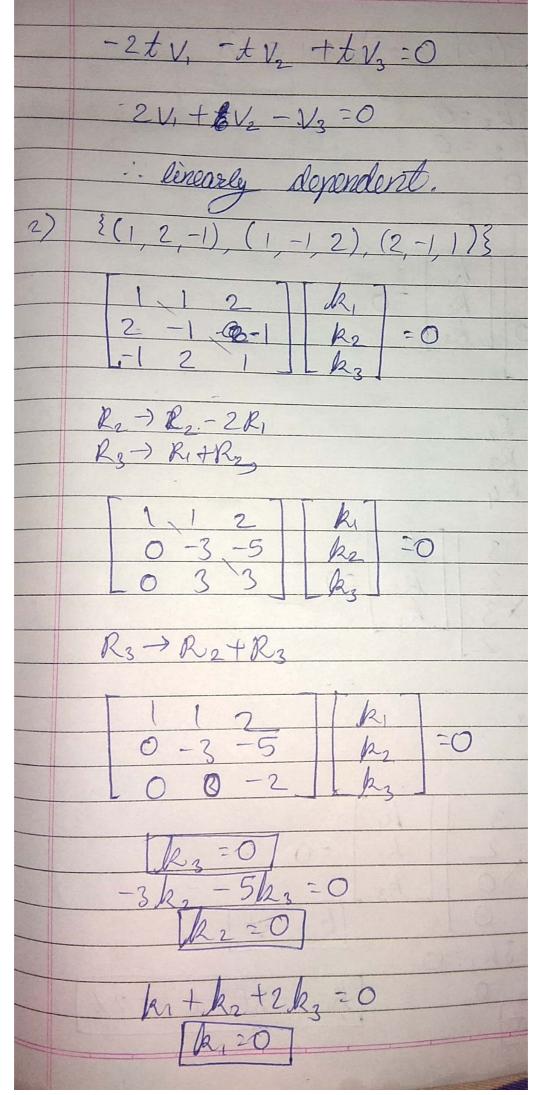
Jutorial Writ-III

1) a)
$$\{(2,1,0), (3,1-1), (0,-1,1)\}$$

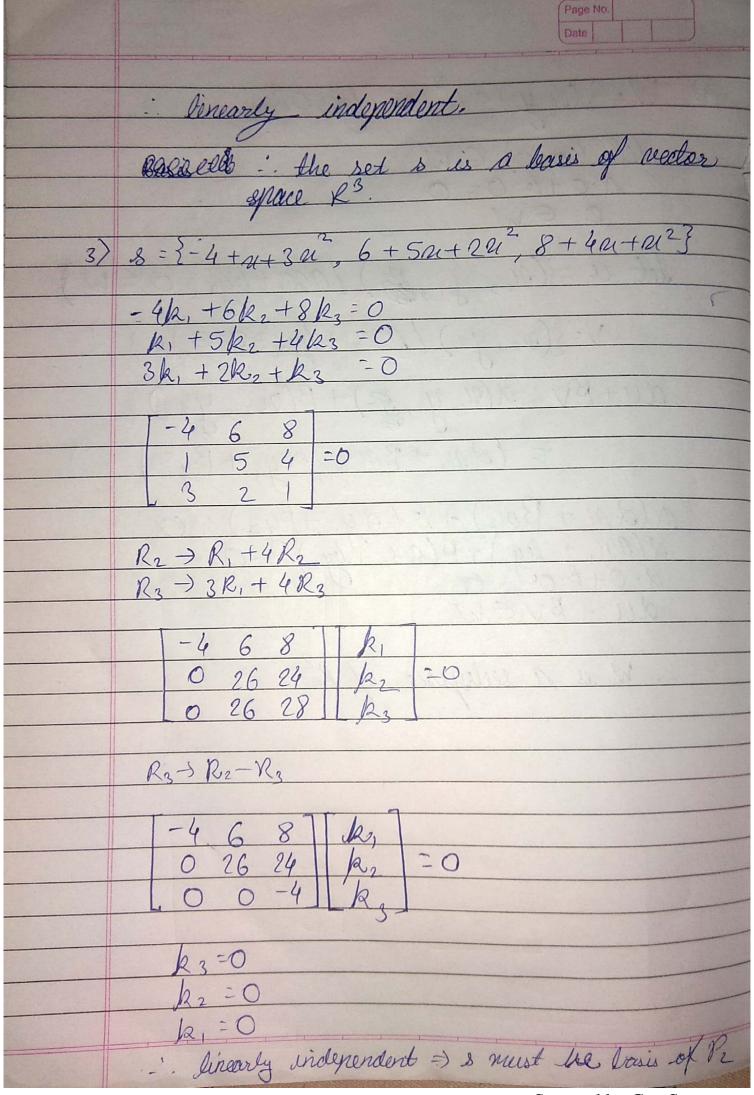
2 $k_1 + 3k_2 = 0$
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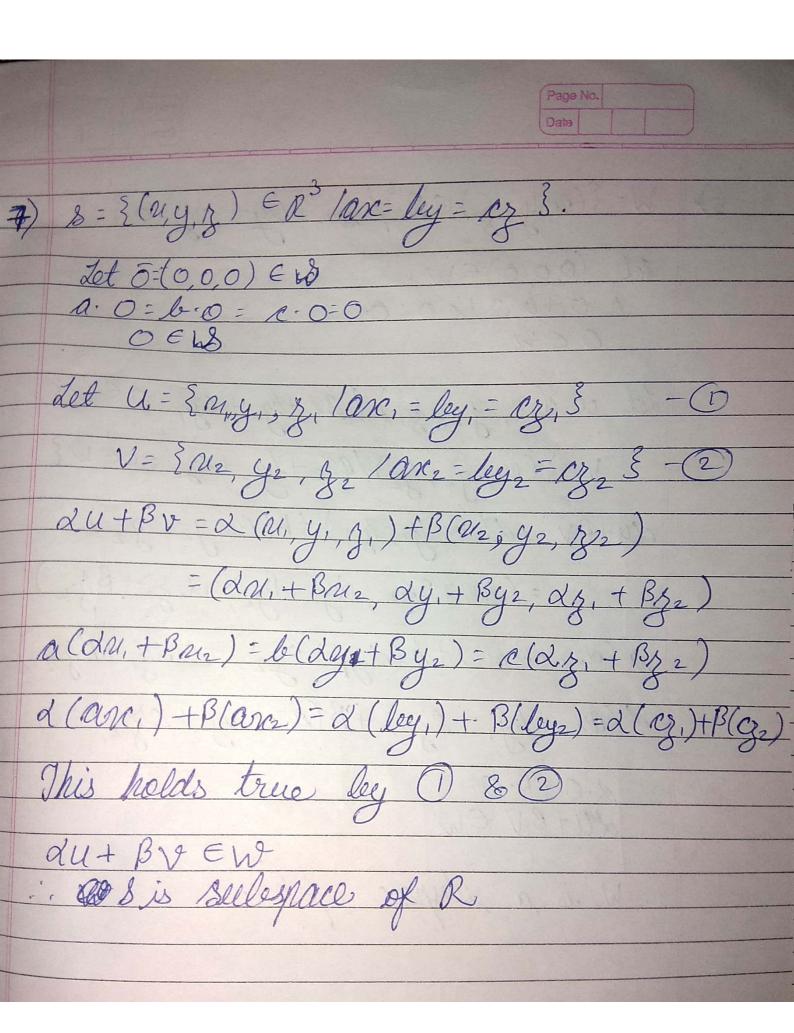


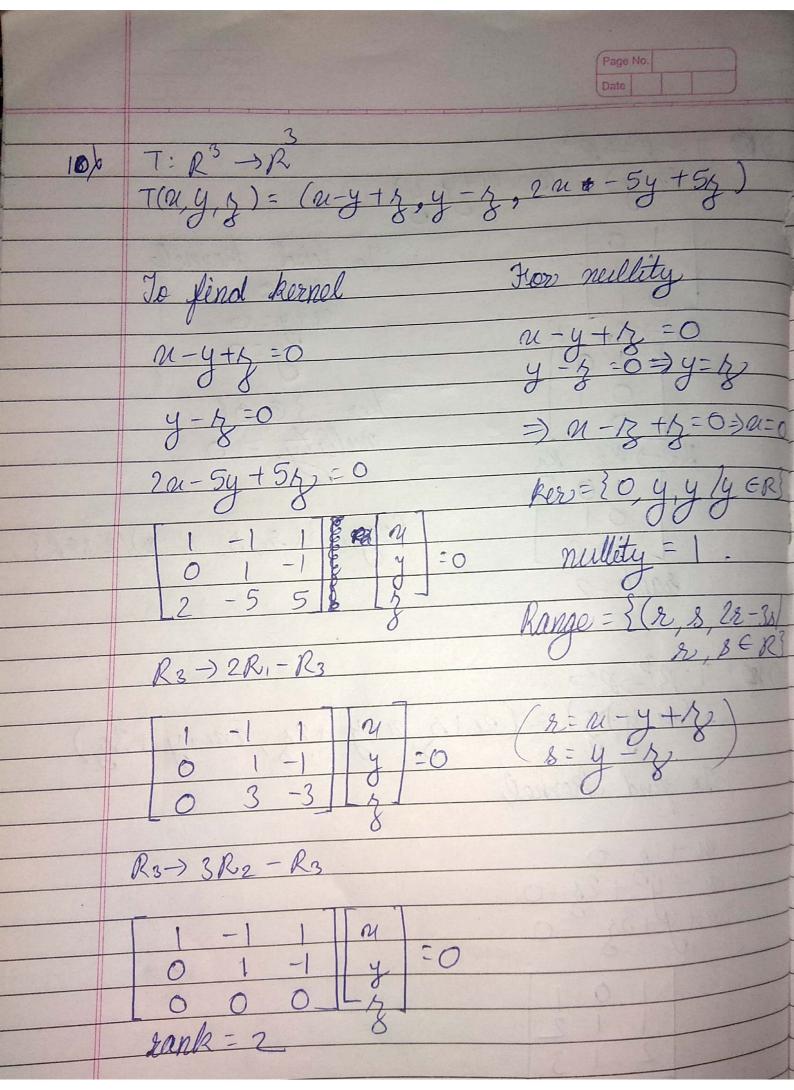
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4) W= {(a,y) e 2 / an + by = 03 det (0,0) EW a.0+b.0=0 Let ce = {(u, y, y) / (an, + by, -0 \in w) V= {(22, 42) / arz + by = 0 & w }. au+By=a(01, 4, 2)+B(012, 42) = (du, + Buz , xy, + By2 a(dn, + Bn2) + b (dy, + By2) = 0 2(an, + ley, + B(an, +ley) = 0 2.0+ B.00 = 6 du + BVEW. :. W is a sellypace of R2.

5> W= {(2,4,5) \in R3/an+ley+0z=03 let (0,0,0)∈W a. 0+60+2.0=0 Let u= ?(n, y, z,) 1 an, +by, +cz, =0 ∈ w? V= { (N2, 42, 32) / ON2 + by + CZ = OEW} du+BV = d(M, y, g,)+B(M2, y2, g2) = (da, + Baz, dy, + By, dz, + Bgz) a (du, + Bm2) + b (dy + By2) + c (dy, + By2) d(an, + by, + cz,) + B(an2+by+cz)=0 2.0+B.0 dutβV∈W :. W is a subspace of R3.





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