408231171 美工年113 方國主 4. Find ... for theat transformation T= R3 > R3, T(v, 1/2, 1/2) = (V, +1/2, 1/2+1/3, 1/2) -st1, 1+x, 2 (A-) TW1+V=, V8) TW)= (1-2, 1, 2) = 1-1, 3, 2) (b) T(V,, V2, V3) = (V,+V2, V2+V3, V3) = (0, 1, 2) Vit V2 = 0 V2+ V3 = 1 V2=-1, V1=1 (1,-1,2) 1/2 = 2 [16.] Let T be such that T(1,-1)=(2,-3) and T(0,2)=(0,8) Find[12,c Because (2,4) = 2(1,1)+3(0,2) 7(24)=27(1,-1)+37(0,2)=2(2,-3)+3(0,8) =(4,-6)+(0124)=(4,18) + 31) Detine the linear transformation T by T(V) = Av. Find (cep(T) ... rank(T) (a) A-[-10]. [10] = [0] ker[T]={(0,0)} (c) $A^{T} = [1 - 1] = null + by(T) = 0.$ (c) $A^{T} = [1 - 1] = 7 [0]$ d.) dm (rangelT) = rank(T) - Z Given T= 18 P5 > P3 and nultry UT)= 4, find Rank(T) Rank(T) = dImPs - nullity(T) = 6-4=2