O Find matrix of T & T: R -> R by T(x, y, k) = (2x-48+9*, 5x+38-2*) with respect to standard basis. Solution The standard basis for R: B= 3(1,0,0), (0,1,0), (0,0,1) The standard basis for R : B= 2(1,0), (0,1)] Now T(1,0,0)=(2,5)=2(1,0)+5(0,1) T(0,1,0)=(4,3)=-4(1,0)+3(0,1) T(0,0,1)=(9,-2)=9(1,0)+(-2)(6,1)[T; B; B'] = [2 -4 9 [5 3 -2] 90 $O[T; B; B'] FON T: V^2 \rightarrow V^3$ T(N1, x2) = (x1+x2,2x1-x2,7x2) with standard basis.