EX#5.2

O which of the following are linear combination of U=(0,-2,2) and V=(1,3,-1) (2,2,2) Solution U=(0,-2,2), V=(1,3,-1), W=(2,2,2) Fineur Compination is W= KIU + K2V (2,2,2) = K1(0,-2,2)+(2(1,3,-1) 2 - 0+ 12 2 = K2 2= 1-2/1 + 3/12 2k1 - 3k2 = -2 -> 1 2 = 2K1 - K212K1-K2=2 ->00 Substitute the value of K2=2 in (i) $2K_1 - 3(2) = -2$ 2K1-6=-2 $2K_1 = -2 + 6$ 2K1 - 4