$$[c_1 = 1]$$
,  $[c_2 = -1]$ ,  $[c_3 = 2]$ 

6 Find the vector V in R3 whose coordinate vector with respect to the basis S

(V)s = (-1,3,2)

Solution

V = (1)(1,2,1)+(2)(2,9,6)+(2)(3,3,4) V = (-1,-2,-1)+(6,27,6)+(6,6,8) V = (-1+6+6,-2+27+6,-1+0+8) V = (11,31,7)