Linear Combination:

A vector w is called a linear combination of the vector $V_1, V_2, ... V_n$ if can be expressed in the form $W = K_1 V_1 + K_2 V_2 + ... + K_n V_n$ where $K_1, K_2, ... + K_n$ are scalar.

O Every vector V(a,b,c) in R is expressed as a linear combination of the standard

pasis vector: i = (1.0,0), j = (0.11.0), k = (0.01)

Solution

V = (a, b, c) V = (a)(1, 0, 0) + (b)(0, 1, 0) + (c)(0, 0, 1) V = ai + bj + ck