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web coordinates of v the standard coordinates are v_3 are the b_1 b are assumed if no other basis is speci ed this means $v = 3e_1 + 4e_2 + 5e_3$ if $b = \{v_1, v_2, v_3\}$ is a basis of $\mathbb{R}^n$ then the matrix S which contains the vectors v_k as column vectors is called the coordinate change matrix

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