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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 specified this means $v = 3e_1 + 4e_2 + 4e_5 + 2e_6$ 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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web and now that we know what $\mathbf{D}$ is we can now solve for $\mathbf{A}$ we can now solve for the transformation matrix with respect to the standard basis so to do that we have to figure out $\mathbf{C}$ and $\mathbf{C}^{-1}$ so $\mathbf{C}$ remember $\mathbf{C}$ is just the change of basis matrix and all that is is the basis vectors it's just a matrix with the basis vectors in the column

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