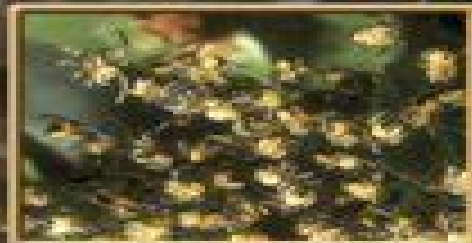


A Spiderling Grows Up

By Pam Zollman



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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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the standard basis so to do that we have to figure out C and C^{-1} so C remember 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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web a translation by a nonzero vector is not a linear map because linear maps must send the zero vector to the zero vector
however translations are very useful in performing coordinate transformations i'll introduce the following terminology for the
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web any vector $\mathbf{v}$ represented in B can be transformed to a representation in C as follows under the transformation of basis
notice that the superscript on the transformation matrix M and the subscript on the coordinate vector $\mathbf{v}$ are the same and
seemingly cancel leaving the remaining subscript

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