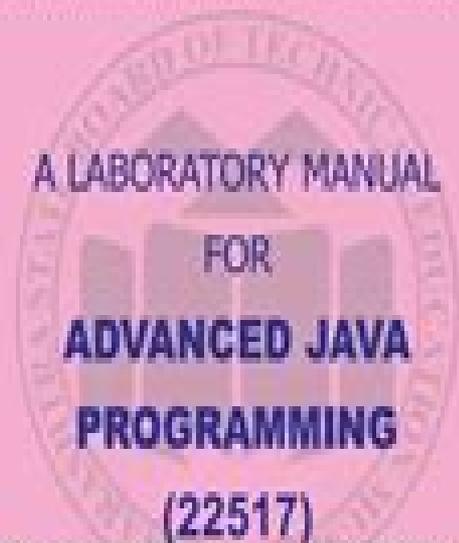


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special kind of transformation of the plane called linear transformation by telling us where the vectors  $\begin{pmatrix} 1 \\ 0 \end{pmatrix}$  and  $\begin{pmatrix} 0 \\ 1 \end{pmatrix}$  are mapped to we can figure out where any other vector is mapped to created by sal khan questions

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web coordinates of  $v$  the standard coordinates are  $v = \begin{pmatrix} v_1 \\ v_2 \end{pmatrix}$  are the  $b_1, b_2$  are assumed if no other basis is specified this means  $v = v_1 b_1 + v_2 b_2$  if  $\{b_1, b_2\}$  is a basis of  $\mathbb{R}^n$  then the matrix  $S$  which contains the vectors  $b_k$  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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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 composite of a linear transformation and a translation definition let  $\mathbf{a}$  be a real matrix

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web any vector  $\mathbf{v}$  represented in  $\mathbf{b}$  can be transformed to a representation in  $\mathbf{c}$  as follows under the transformation of basis notice that the superscript on the transformation matrix  $\mathbf{m}$  and the subscript on the coordinate vector  $\mathbf{v}$  are the same and seemingly cancel leaving the remaining subscript

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