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NIGEL SOLOMON & JOLANDI DANIELS

# Memorandum For Mathematics N4 August 2014

**S Ashworth**



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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  $v_3 e_1$   $4e_2 4 5 2$  if  $b_1 v_1 v_2 v_3$  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  $d$  is we can now solve for  $a$  we can now solve for the transformation matrix with respect to 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  
composite of a linear transformation and a translation definition let  $a$  be a real matrix

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web any vector  $v$  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  $v$  are the same and  
seemingly cancel leaving the remaining subscript

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