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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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