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It is important to note that [T(x)]B2= T[B1,B2] [x]B1. That is, we multiply the matrix of the linear transformation with the coordinates

[x]B1,of the vector x ? V to obtain the coordinates of the vector T(x) ? W. 3. If Ais an m×nmatrix, then Ainduces a linear transformation TA: Rn??Rm,de?ned by TA(x) = Ax.

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1 = r eaxcos ()? bx+ c where we have used the formula cos A cos B – sin A sin B = cos (A + B) Differentiating again and simplifying as before, y. 2= r2eaxcos ()2?+bx+c. Similarly y. 3= r3e axcos ()3?+bx +c. ……. Thus y rneax cos()n bxc n Where r = a2 +b2and ? = tan-1(b/a).

Engineering Mathematics – I

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