Linear Algebra Dimension of matrix + no of grows x no of column. 1402 191 1237 A = 1371 821 949 1437 147 1448 2×3 mats. Rows x colum. TR 2x3 4x3 montric TR4x2 Aij = "i, i Entry" Por the in now, in Colum A43 = Rav 4 & Colus - Undefined A11=1402 @100 A32=1437 A12-191 A41=147 Vector - An nx) mater 4 - [232] n=4 IR 4; - ; h element 41 = 460, 42= 232, 43=315, 44=174 1-indexed Vs o- Proder a. Addition 342 342 3×2

Scalar multiplication

$$3 \times \begin{bmatrix} 1 & 0 \\ 2 & 5 \end{bmatrix} + \begin{bmatrix} 4 & 0.5 \\ 2 & 2 \end{bmatrix} = \begin{bmatrix} 20.808 \\ 3 \end{bmatrix}$$

Scalar multiplication

 $3 \times \begin{bmatrix} 1 & 0 \\ 2 & 5 \end{bmatrix} + \begin{bmatrix} 3 & 0 \\ 6 & 15 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 2 & 3 \end{bmatrix}$ 
 $3 \times \begin{bmatrix} 1 & 0 \\ 2 & 3 \end{bmatrix} + \begin{bmatrix} 4 & 0 \\ 2 & 3 \end{bmatrix} + \begin{bmatrix} 4 & 0 \\ 3 & 3 \end{bmatrix} + \begin{bmatrix} 4$ 





