

Elementary Matrices

Let us put the 3 row vectors together as the rows of the matrix

$$E_1 = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ -4 & 0 & 1 \end{bmatrix}.$$

What is the effect of multiplying A from the left with E_1 ?

$$E_1 A = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ -4 & 0 & 1 \end{bmatrix} \begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix} = \begin{bmatrix} a & b & c \\ d & e & f \\ g - 4a & h - 4b & i - 4c \end{bmatrix}$$

Addition of -4 times row 1 of A to row 3 produces $E_1 A$

E_1 is called an elementary matrix: It performs elementary row operations when it multiplies from the left the matrix A .

Elementary Matrices Some Applications

Daniela Niemeyer



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