

# 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 Matrix Algebra

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