

Exercise Set 2

this is a "not to be assessed" set of exercises

- 1) a) Write out the following elementary matrices: $D_3(4; \frac{1}{2})$, $E_3(2, 3; -10)$, $P_3(3, 2)$.
 b) In each case, describe the elementary row operation corresponding to the elementary matrix.

- 2) Consider the matrix

$$M = \begin{pmatrix} -4 & -9 & 8 \\ 0 & -1 & -1 \\ 1 & 3 & -1 \end{pmatrix}$$

By row reducing the augmented matrix $(M | I_3)$, deduce that M is invertible, and write down the inverse of M .

- 3) Consider the matrix

$$A = \begin{pmatrix} 0 & 1 & 0 & 2 \\ 1 & 0 & -4 & 0 \\ 0 & 2 & 5 & 4 \\ -2 & 0 & 8 & 1 \end{pmatrix}$$

By row reducing the augmented matrix $(A | I_4)$:

- a) write down the inverse of A .
 b) express A^{-1} as a product of elementary matrices.
 c) express A as a product of elementary matrices.
 d) solve the equation $Ax = b$, where:

$$x = \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \end{pmatrix}, \quad b = \begin{pmatrix} 5 \\ -2 \\ 15 \\ 9 \end{pmatrix}$$

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