

Math 3280 Worksheet 14: Matrix inverses and elementary matrices.

Group members (2 to 4): \_\_\_\_\_

Row reduce each matrix to row-reduced echelon form. For each row reduction step, write down the corresponding elementary matrix.

$$(1) \begin{bmatrix} 0 & 1 & 2 \\ 0 & 1 & 0 \\ 1 & 1 & 0 \end{bmatrix}$$

$$(2) \begin{bmatrix} 1 & 1 & 1 \\ 2 & 0 & 2 \\ 1 & -2 & 1 \end{bmatrix}$$