Math 220 Assignment

October 3, 2001

Due Friday, October 5

Invert the following square matrices by performing, in each case, row operations on the matrix with twice the number of columns that is obtained from the original matrix through augmentation by the identity matrix of the same size:

1.
$$\begin{pmatrix} 3 & 7 \\ 2 & 5 \end{pmatrix}$$

2.
$$\begin{pmatrix} 3 & 2 \\ 2 & -3 \end{pmatrix}$$

3.
$$\begin{pmatrix} 3 & 2 & 4 \\ 2 & -3 & 1 \\ 3 & -6 & 1 \end{pmatrix}$$

4.
$$\begin{pmatrix} 1 & 2 & 1 & 2 \\ -2 & -1 & 3 & 2 \\ -2 & 2 & 6 & -1 \\ 1 & 0 & -2 & 0 \end{pmatrix}$$

Document network location for HTML:
    http://math.albany.edu:8000/math/pers/hammond/course/mat220/assgt/la011003.html