

MATHEMATICS 2270. Homework # 7.

1. Compute the determinant using Laplace (row/column) expansion:

$$\begin{vmatrix} 1 & 0 & 1 & 0 \\ 1 & 2 & 3 & 4 \\ 0 & 1 & 1 & 0 \\ 0 & 1 & 0 & 1 \end{vmatrix}.$$

2. §6.2, # 4.
3. §6.2, # 12.
4. §6.2, # 27.
5. §6.3, # 2.
6. §6.3, # 14.
7. Use the "classical adjoint" to find inverse of the matrix

$$\begin{bmatrix} 1 & 0 & 1 \\ 1 & 2 & 0 \\ 0 & 1 & 1 \end{bmatrix}.$$