

MAT 67, Homework 8, due 3/3/08

1. Find the following determinants:

(a)

$$\begin{vmatrix} 1 & 1 & -3 \\ 1 & 0 & 1 \\ 2 & 5 & -4 \end{vmatrix}$$

(b)

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

(c)

$$\begin{vmatrix} 1 & 2 & -3 & 1 \\ 1 & 3 & 1 & 5 \\ 2 & 0 & -4 & 0 \\ 1 & 3 & 1 & 3 \end{vmatrix}$$

(d)

$$\begin{vmatrix} i & 2 & 0 & 1+i \\ 1 & 0 & 1 & 5 \\ 2 & 0 & -4i & 0 \\ 1+i & 3 & 1 & 3 \end{vmatrix}$$

2. Exercises 4, 5, 6 on pages 115-116

3. Proof writing exercises 2, 3, 4 on page 116