Week 6: Post-Midterm Stuff!
MATH 4A
TA: Jerry Luo
jerryluo8@math.ucsb.edu
Website: math.ucsb.edu/∼jerryluo8
Office Hours: Monday 9:30-10:30AM, South Hall 6431X
Math Lab hours: Monday 3-5PM, South Hall 1607

6-1.4 Let $C = \begin{bmatrix} -1 & 2 & -2 & 0 \\ 0 & 0 & 3 & -1 \\ 3 & 0 & -1 & 0 \\ -2 & 1 & 0 & -2 \end{bmatrix}$. Find $\det(C)$.

6-1.5 Let $M = \begin{bmatrix} -1 & 0 & 0 & -3 & 0 \\ -2 & 0 & 1 & 0 & 0 \\ 0 & 3 & 0 & 0 & 2 \\ 0 & 0 & 0 & 2 & -2 \\ 0 & 1 & 1 & 0 & 0 \end{bmatrix}$. Find $\det(M)$.

6-1.10 If $\det \begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix} = -3$, then what's $\det \begin{bmatrix} a - 2g & 8b - 16h & c - 2i \\ d & 8e & f \\ g & 8h & i \end{bmatrix}$?

6-1.12 Find the area of the parallelogram with vertices at $(4, 1)$, $(16, 2)$, $(6, 6)$, and $(18, 3)$.