

MATH 220: MATRICES
HOMEWORK #5

The homework is due on **September 27, 2011**, at the beginning of your class. It is to be handed in **stapled** and legible. Please write on the frontpage:

- Your name,
- Your PSU email id,
- MATH 220,
- Your section number.

The problems must be taken from the **4th edition** of the textbook. Correct answers without supporting work will receive no credit. The problems which are **underlined** are worth 10 points each, the remaining problems are worth 5 points each.

Textbook Problems - Section 1.8: # 5, 11, 20, 33, 36, 38, 40

Textbook Problems - Section 1.9: # 2, 4, 19, 20, 24, 27, 33, 40

For Problems 38-40 of Section 1.8, and for Problem 40 of Section 1.9 you can use Wolfram Alpha in order to reduce matrices in echelon form. Go on

<http://www.wolframalpha.com/>

If, for instance, you want to row reduce the matrix

$$\begin{bmatrix} 1 & 3 & 5 \\ 2 & -4 & 7 \\ -5 & 8 & -9 \end{bmatrix}$$

you must type:

`RowReduce[{{1,3,5},{2,-4,7},{-5,8,-9}}]`