

MATH 220: MATRICES
HOMEWORK #7

The homework is due on **October 11, 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 2.3: # 8, 10, 12, 14, 21, 28, 36

Textbook Problems - Section 2.8: # 7, 8, 18, 20, 22, 26, 34, 38

For Problem 10 of Section 2.3 and for Problem 38 of Section 2.8 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}}]`