

MATH 220: MATRICES  
**HOMEWORK #3**

*The homework is due on **September 12, 2011**. Correct answers without supporting work will receive no credit.*

**Textbook Problems - Section 1.3:** # 21, 22, 24, 25, 26, 29, 30, 32

**Textbook Problems - Section 1.4:** # 10, 16, 20, 26, 30, 32, 42

For Problem 42 of Section 1.4, 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}}]
```