Honors Linear Algebra (Spring 2011) — Homework 12

- DL-LAA stands for the text (David Lay – Linear Algebra and its Applications).

- The points for each problem is given in parentheses. The total points add up to 75. You will be graded for 70 points, with the possibility of getting up to 5 points as extra credit.

- **This homework is due in class on Thursday, April 28**.

1. (9)   DL-LAA Problem 30 from Page 262.

2. (10)   Let $A \in \mathbb{R}^{m \times n}$. What are the *smallest* and *largest* possible values of rank(A) and dim Nul A?

3. (10)   DL-LAA Problem 16 from Page 308.

4. (9)   DL-LAA Problem 22 **a, b, e** from Page 309.

5. (12)   DL-LAA Problem 30 from Page 309.

6. (10)   DL-LAA Problem 14 from Page 317.

7. (15)   DL-LAA Problem 27 from Page 318.