Honors Linear Algebra (Spring 2011) — Homework 8

- 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 70. You will be graded for 65 points, with the possibility of getting up to 5 points as extra credit.
- **This homework is due in class on Thursday, March 24**.

1. (11) DL-LAA Problem 12 from page 126.
2. (10) DL-LAA Problem 19 from page 126.
3. (12) Assuming $A, B, X \in \mathbb{R}^{n\times n}$ are invertible matrices, solve for X in terms of the other matrices from the following equation.

$$A(X - A^{-1}B)^{-1}X = X$$

4. (10) DL-LAA Problem 28 from page 127.
5. (12) DL-LAA Problem 34 from page 127.
6. (15) DL-LAA Problem 12 from Page 132.