

Math 430/603 Spring 2017 Homework #1

Due Feb. 7, Tue in class

1. Textbook, Section 3.2, page 88: 5(b-c), 6; (*Hint* to 6(b): use 6(a))
2. Textbook, Section 3.5, page 103: 5;
3. Let A be an $m \times n$ matrix and B be an $n \times p$ matrix. Show that the conjugate of AB equals the product of \overline{A} and \overline{B} , i.e., $\overline{AB} = \overline{A} \cdot \overline{B}$.

The following extra problem(s) are for Math 600 students only:

4. Textbook, Section 3.5, page 103: 7;