

Homework 5

Due Wednesday, March 15

MATH 231

Exercise 1. Complete the following exercises from Section 2.1 in the course textbook:

#7–10, 12, 13, 25, 28, 29, 33, 35, 36

Exercise 2. Complete the following exercises from Section 2.2 in the course textbook:

#1, 3, 5, 7, 26, 29, 31–34, 41, 42

Exercise 3. Suppose A and B are $n \times n$ matrices such that AB is invertible. Show that both A and B are invertible.

Exercise 4. Think through, but **do not turn in** solutions to, exercises 21–32 in Section 2.3 of the course textbook.

Exercise 5. Complete the following exercises from Section 2.8 in the course textbook:

#1–4, 11, 12, 15, 17, 19, 31, 33 (for 31 and 33 only consider $\text{null}(A)$), 39–44