Last name _____

First name _____

LARSON—MATH 511—HOMEWORK WORKSHEET 15
Strang's Lectures—Notes and Questions

1. Read **Sec. II.1** of our book.

2. Watch Prof Strang's **Lecture 12**.

   https://ocw.mit.edu/courses/18-065-matrix-methods-in-data-analysis-signal-processing-
   and-machine-learning-spring-2018/resources/lecture-12-computing-eigenvalues-and-singular-
   values/

3. Write up *useful notes* for Prof Strang's lecture.

4. Write at least two questions about what you didn't understand. Write these maxi-
   mally clearly—so that an advanced student (who has had a semester of linear algebra)
   not in our class might understand your question.

   Is your question about a definition of a term that he uses? If so, is the term defined
   in our book? Write out the relevant definition and an example.

5. Your **Notes and Questions** can be handwritten, done in LaTeX, word, etc, but
   you need to make a **pdf** of your final product (somehow).

6. Then email me your notes with an email subject that mentions the class and assign-
   ment (for instance, "MATH 511 h15 attached").

   More

   All of Prof Strang's course lectures are here:

   https://ocw.mit.edu/courses/18-065-matrix-methods-in-data-analysis-signal-processing-
   and-machine-learning-spring-2018/video galleries/video-lectures/