Practice problems, Week 6, February 11 – February 17.

Lecture aims to explain the theory behind linear algebra, lab gives practice with longer problems that incorporate Matlab, and you only have eight “book” problems on your homework (in addition to the two longer problems, and the lab worksheet). These are linear algebra problems, from the book, aimed at giving you practice with the “mechanics” of linear algebra.

These problems are optional, and will not be collected or graded. No answers will be provided, though perhaps you can find them on-line if you are industrious. Please ask questions about these and any other problems in office hours.

We covered §3.5–§4.1 of the book this week. These problems relate to those sections.

Problems in bold are ones that I particularly like.

• §3.5 Dimensions of the four subspaces.
  
  Page 190, problems 1, 4, 6, 7.
  Page 191, problems 10, 12, 13, 15, 16.
  Page 192, problems 18, 19, 20, 24.

Problems in bold are ones that I particularly like.

• §4.1 Orthogonality.
  
  Page 202, problems 3, 4, 5.
  Page 203, problems 9, 13.
  Page 204, problems 17, 19, 21, 22, 24, 27