

V63.0140-3: Linear Algebra. Homework 7

due Thurs Oct 30 at start of lecture

Bit longer, since first 4 were postponed from HW6.

4.2:

- 2.
- 3.
- 18. (simpler than it looks.)
- 22.
- 25.

4.3:

- 2.
- 8.
- 11.
- 14.
- 22.
- 24. (Important one: give an explanation using the definition of a basis).
- 25. (This one is worth thinking about until you get it. The way it is set up is a little to trick you. Test carefully the two requirements for being a basis. Also see solution to Practice Problem 3, p. 246).

4.4:

- 2.
- 6.
- 11.
- 14.
- 29.

4.5:

- 2. (find a basis by checking that your guess is a basis, see exercise 1).