

MAT 204. Advanced Linear Algebra with Applications, Spring 2009

Homework

Spring 2009

Problems are from Strang, Linear algebra, 4th edition.

Homework 1 - Due Wednesday, Feb 11

- §1.2: 1, 4, 8, 9.
- §1.3: 6, 10, 12.
- §1.4: 2, 10, 17.
- §1.5: 4, 5, 11, 15.

Homework 2 - Due Wednesday, Feb 18

- §1.6: 2, 4, 6, 10, 11.
- §2.1: 2, 6, 9, 14.

Homework 3 - Due Wednesday, Feb 25

- §2.1: 3, 4, 21, 22.
- §2.2: 2, 4, 6, 8, 12.
- §2.3: 2, 5, 8, 10, 11, 13, 22, 23.

Homework 4 - Due Wednesday, Mar 4

- §2.4: 3, 5, 9, 10, 14, 23.
- §2.6: 4, 6, 9, 15, 16, 36, 37.

Homework 5 - Due Wednesday, Mar 11

- §3.1: 7, 9, 12, 20.
- §3.2: 3, 7, 11.
- §3.3: 6, 7, 8, 10.

Homework 6 - Due Wednesday, Mar 25

- §3.4: 2, 3, 6, 13 (do not do the $(A = QR)$ part), 14, 28.

Homework 7 - Due Wednesday, Apr 1

- §4.2: 1, 2, 4, 5, 7, 14, 17.
- §4.3: 1, 3, 7, 17.

Homework 8 - Due Wednesday, Apr 8

- §4.4: 1, 2, 3, 9, 27, 28.
- §5.1: 5, 6, 7, 10, 11, 14, 18.

Homework 9 - Due Wednesday, Apr 15

- §5.2: 1, 2, 3, 4, 5, 11, 12.
- §5.3: 8, 10, 14.

Homework 10 - Due Wednesday, Apr 22

- §5.4: 1, 2, 5, 8, 9.
- §5.5: 5, 7, 9, 11, 13.

Homework 11 - Due Wednesday, Apr 29

- §6.1: 1, 2, 3, 5, 8.
- §6.2: 2, 7, 8, 14, 21.
- §6.3: 2, 7, 8, 10.