

MATH 544 — 2007

Homework

- section 1.1, page 12: 11, 12, 13, 14, 16, 17, 18, 33, 35.
- section 1.2, page 26: 25, 30, 31, 36, 38.
- section 1.3, page 37: 1, 7, 9, 11, 13, 15, 17, 19, 25.
- section 1.5, page 58: 1, 3, 7c, 11a, 13, 15, 21, 27, 31, 33, 42, 43, 44, 56, 62, 63, 65ac.
- section 1.6, page 69: 26, 27, 28, 29, 30, 31, 41a, 43.
- section 1.7, page 78: 1, 3, 5, 11, 13, 16, 17, 29, 31, 35, 39, 41, 47, 48, 50, 51, 52, 53.
- section 1.9, page 102: 1, 13, 19, 25, 53, 67, 74.
- section 3.2, page 174: 1–21, 23, 29–32.
- section 3.3, page 186: 1, 3, 5, 9, 11, 22, 23, 27, 31, 35, 38(iii) (iv), 50–53.
- section 3.4, page 200: 1, 3, 9, 11*, 13*, 15*, 21*, 23*, 25.
- section 3.5, page 212: 15, 17, 19, 23, 25, 27, 29, 33, 34, 40.
- section 3.6, page 224: 1, 5, 9, 13, 15, 19.
- section 3.7, page 239: 1, 3, 7–17, 19, 25, 27, 29, 33, 45, 46.
- section 4.1, page 279: 1, 3, 11, 17.
- section 4.2, page 288: 8, 9, 21.
- section 4.3, page 296: 13, 15, 17, 19, 27, 28.
- section 4.4, page 305: 1, 5, 9, 13. (Change made on November 14, 2006. Take the instruction to be: Find all eigenvalues and eigenvectors of this matrix. You may skip number 13.)

section 4.5, page 314: 13, 17.
section 4.6, page 324: 21, 23.
section 4.7, page 337: 5*, 7*, 25a.
section 5.2, page 367: 1–4 (for $-2u - v + 3w$ only), 6–16, 18, 25, 27, 29.
section 5.3, page 373: 1, 3, 4, 7, 10, 11, 12, 14, 15, 16, 19, 26.
section 5.4, page 386: 1, 4, 5, 8.
section 5.5, page 390: 1, 2, 3, 4, 7, 8–13.
section 5.7, page 410: 1–4, 7, 8, 10–13.
section 5.8, page 418: 5a, 6a, 9, 10, 11*, 21, 22.
section 5.9, page 429: 1, 2, 5, 19, 21.

* Do the problem using any legal technique. You are not required to follow the instructions in the book.