

Fall 2015
Math 2243: Linear Algebra and Differential Equations
Homework List: from Edwards & Penney, 3rd Edition

Homework: **Boldface** problems to be written up, due each Tuesday, September 15 – December 12. Graphs are not required.

September 15: *Sect. 1.1* (p. 8) #3, 15, 17, **19**.

Sect. 1.2 (p. 12) #**3**, 11, 25, 27.

Sect. 1.3 (p. 27) #1, **22**, 28.

September 22: *Sect. 1.4* (p. 43) #1,**5**, 23, 26, 27, 33, 49.

Sect. 1.5 (p. 56) #1, **5**, 7, 15, 25, 33, 37.

Sect. 2.1 (p. 87) #2, 4, 10, 15, **16**, 21, 23.

September 29: *Sect. 2.2* (p. 98) #1, 6, 11, **21**.

Sect. 2.3 (p. 108) #1, 7, **10**, 11, 20, 21, 25, 26.

Sect. 2.4 (p. 121) #1, **4**.

Sect. 3.1 (p. 155) #1, 3, 5, 9, **15**, 25, 29, 33.

October 6: *Sect. 3.2* (p. 165) #1, 5, 7, **13**, 15, 25.

Sect. 3.3 (p. 174) #1, 9, **18**, 32, 35.

Sect. 3.4 (p. 186) #2, 4, 6, 10, 17, 20, **31**.

Exam 1 is on Thursday, October 8. Covers through section 3.3.

October 13: *Sect. 3.5* (p. 199) #2, 4, 5, **11**, 16, 23, **32**, 36.

Sect. 3.6 (p. 216) #2, 4, **9**, 13, 16, 21, 23, 33.

October 20: *Sect. 4.1* (p. 237) # 1, 11, 15, **19**.

Sect. 4.2 (p. 244) # 4, 11, 15, **19**.

Sect. 4.3 (p. 252) # 5, **9**, 11, 19.

October 27: *Sect. 4.4* (p. 259) # 2, 5, 8, **9**, 13, 19.

Sect. 4.5 (p. 268) # 2, **5**, 13, 17.

Sect. 4.7 (p. 284) # 1, 4, 7, 9, 10, 14, **16**, 23.

November 3: *Sect. 5.1* (p. 299) # 3, 10, 25, 33, **35**.

Sect. 5.2 (p. 311) # 2, 9, 13, **21**, 33.

Exam 2 is Tuesday, November 5. Covers through section 5.2.

November 10: *Sect. 5.3* (p. 323) # 3, 11, 15, 20, 23, **27**, 35.
Sect. 5.4 (p. 335) # 2, 3, **15**, 17, 18.

November 17: *Sect. 5.5* (p. 351) # 10, 12, 14, 16, 23, 27, **37**, 39.
Sect. 5.6 (p. 362) # 1, 3, **6**, 11.

November 24: *Sect. 6.1* (p. 374) # 1, 2, **13**, 20, 22, 33, 35.
Sect. 6.2 (p. 383) # 1, 9m 10, 16, 17, **21**, 30, 32.

December 1: *Sect. 7.1* (p. 404) # 1, 3, 6, 7, **17**, 18.
Sect. 7.2 (p. 417) # 6, 7, 15, **18**, 24, 27, 33.

Exam 3 is Thursday, December 3. Covers through section 7.2.

December 8: *Sect. 7.3* (p. 429) # 2, 6, **11**, 25, 26, 29, 31.
Sect. 7.5 (p. 462) # 1, 3, 5, 7, **11**, 20.

December 15: *Sect. 10.1* (p. 585) # 3, **12**, 14, 20.
Sect. 10.2 (p. 598) # 6, 12, 13, 14, 16, **19**, 24.

Final exam is Thursday, December 17, from 1:30 – 4:30 pm.

Covers material in chapters 1, 2, 3, 4, 5, 6, 7, 10 of Edwards & Penney; except sections 1.6, 2.5–6, 3.7, 4.6, 6.3, 7.4 and 10.3–5. Room TBA.