Homework for Math 2270 §1, Fall 2015

A. Treibergs, Instructor

December 2, 2015

Our text is by David C. Lay, Steven R. Lay and Judi J. McDonald, *Linear Algebra and its Applications*, 5th ed. Please read the relevant sections in the text as well as any cited reference. Assignments are due the following Friday, or on Dec 10, whichever comes first.

Your written work reflects your professionalism. Make answers complete and self contained. This means that you should copy or paraphrase each question, write in complete sentences, provide adequate explanation to help the reader understand the structure of your argument, be thorough in the details, state any theorem that you use and proofread your answer.

Homework from Wednesday to Tuesday will be due Friday. Late homework that is up to one week late will receive half credit. Homework that is more than one week late will receive no credit at all. The homework reader is Tim Schelz. Homework that is placed in his mailbox in JWB 228 before he picks it up at about 4:00 pm Friday afternoon will be considered to be on time.

Please hand in problems A on Friday, August 28.

A. Exercises from Sec. 1.1 of the text

$$10[2, 4, 8, 12, 16, 20]$$

Please hand in problems B on Friday, September 4.

B. Exercises from Sec. 1.2 – 1.3 of the text

$$21[4, 10, 12, 14, 18, 20]$$
$$32[12, 14, 18, 28]$$

Please hand in problems C on Friday, September 11.

C. Exercises from Sec. 1.4 – 1.8 of the text

$$40[14, 16, 18, 21, 34]$$
$$48[11,26]$$
$$55[6, 12]$$
$$61[2, 5, 12, 36]$$
$$69[4, 9, 11, 19, 28]$$

Please hand in problems D on Friday, September 18.

D. Exercises from Sec. 1.9 – 1.10 of the text

```
79[1, 7, 17, 25, 33]
87[1, 7, 9]
```

Please hand in problems E on Friday, September 25.

E. Exercises from Sec. 2.1 – 2.2 of the text

```
102[11, 22, 31]
111[1, 5, 8, 15, 21, 31, 34, 35, 39, 40]
```

Please hand in problems F on Friday, October 2.

F. Exercises from Sec. 2.3 – 2.5 of the text

```
117[1-8, 13, 15, 24, 27, 36]
123[9, 10, 15]
131[1, 11, 17, 18]
```

Please hand in problems G on Friday, October 9.

G. Exercises from Sec. 2.8 – 3.2 of the text

```
153[6, 25, 37]
159[5, 9, 14, 22]
169[4, 13, 15]
177[9, 14, 23, 25, 30]
```

Please hand in problems H on Friday, October 23.

H. Exercises from Sec. 3.3 – 4.2 of the text

```
186[6, 13, 21, 27, 31]
197[2, 8, 11, 20, 27]
207[7, 30, 31, 33]
```

Please hand in problems I on Friday, October 30.

I. Exercises from Sec. 4.3 – 4.4 of the text

```
215[3, 9, 26, 31]
224[3, 7, 10, 12, 13, 20, 25, 32]
```

Please hand in problems J on Friday, Nov. 6.

J. Exercises from Sec. 4.5 – 4.7 and 5.1 of the text

```
231[11, 21, 23, 25]
238[3, 19, 29]
244[1, 9, 14, 19]
273[5, 7, 14, 19, 25, 31]
```

Please hand in problems K on Friday, Nov. 13.

K. Exercises from Sec. 5.2 – 5.4 of the text

```
281[8, 11, 19, 27]
288[11, 18, 23, 27]
295[5, 8, 12, 15, 28, 30]
```

Please hand in problems L on Friday, Nov. 20.

L. Exercises from Sec. 5.5, 6.1 of the text

```
302[4, 8, 13, 24]
338[14, 23, 24, 29, 31]
```

Please hand in problems M on Friday, Dec. 4.

M. Exercises from Sec. 6.2 – 6.4 of the text

```
346[10, 13, 21, 25, 29]
354[5, 10, 14, 17, 19, 23]
360[7, 12, 14, 16, 19, 22]
```

You are responsible for problems N, but do not hand them in.

N. Exercises from Sec. 6.5, 7.1 – 7.4 of the text

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368[3, 5, 7, 15, 19]
401[19, 32]
408[7, 8, 11, 26]
415[6, 8, 12]
425[10, 13, 15, 19]
```

The FINAL EXAM is Fri., Dec. 18, 8:00 - 10:00 AM. in the usual classroom, LCB 219.