

**MATH 342 SECTION 33650**  
**WRITTEN HOMEWORK 2**  
**DUE APRIL 11, 2016.**  
INSTRUCTOR: ROBERT LIPSHITZ

Reminder: homework is due at the *beginning* of class, handed to me or in my mailbox on the second floor of Fenton.

Required textbook problems (hand these in):

- (1) §4.4: 9, 10, 11, 12, 13, 14, 17, 32.
- (2) §4.5: 21, 23.
- (3) §4.6: 4, 7, 8, 10, 13, 20, 21, 22.
- (4) §4.7: 1, 2, 6, 7, 8, 14, 15, 16.
- (5) §4.8: 1, 3, 7, 12, 26, 35.
- (6) §4.9: 2, 3, 5, 6, 12.

Suggested practice (don't hand these in):

- Please read and make sure you can do the practice problems in Sections 4.6–4.9.
- Please read and use for review problems 4.6.17(a,c,d,e), 4.6.18, 4.7.11, 4.7.12.
- If you had trouble or got help with any of the assigned problems, solve another, similar problem (or two).

*Bonus points.* An extra 10% of the homework score will be awarded for correctly following the tutorial on using Sage for linear algebra computation, at <https://blogs.uoregon.edu/math342sp16lipshitz/> . For this week:

- (1) Follow the steps in the post “Matrix operations in Sage”.
- (2) Use Sage to check your answers to 4.7.8 and 4.9.6.

Print out the worksheet you create, and hand it in for full credit.

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