

Math F113X: Homework Set 11

All of the problems come from the Math in Society text found here:

<https://spot.pcc.edu/math/mathinsociety/root-1-2.html>

- Complete problems #11,12,13 from Section 2.1.6 linked here:
https://spot.pcc.edu/math/mathinsociety/chap_two_intro_spreadsheet.html
- Complete problems #1-6,8,10 from Section 2.2.11 linked here:
https://spot.pcc.edu/math/mathinsociety/chap_two_simple_compound.html
- Complete problems #1,2,3,4,5 from Section 2.4.9 linked here:
https://spot.pcc.edu/math/mathinsociety/chap_two_loans.html
- Problem A (below)

Problem A You have a credit card bill of \$4923. You decide that's way too much money to have floating on your credit card, which has a terrible APR of 27.99%. So, you *stop using the credit card*.

- How much interest is charged in the next month, if you make no payments?
- Why is paying off your credit card at \$100/month not a good strategy?
- If you pay \$400/month, how many years will it take to pay down the credit card?
- If you want to pay off the credit card completely in 2 years, how much do you have to pay each month?

Remember to write up your homework solutions according to the homework writeup guidelines.

Homework is graded using the following rubric for each problem (or problem part):

2 points: You provided a complete answer, with supporting work, written up clearly

1 point: Some attempt at a solution, but incomplete writeup / unclear / illegible / no answer

1 point: Only an answer, with no supporting work

0 points: Missing.

After you do the homework, you need to check your answers against the solutions! Then figure out your errors (if any) and revise your homework before you submit it.

Homework must be submitted on Gradescope.