

Math-08 Homework #5

Reading

- Text book section 1.1, review 0.2

Problems

- 1). At the beginning of January you open up a savings account with \$1000 that pays 3% yearly interest compounded at the end of the month. You set up an autodeposit of \$500 per month out of your paycheck that is deposited on the first of each month, starting in February. In January, February, March, and April you pay the following expenses:

Jan	\$250
Feb	\$750
Mar	\$600
Apr	\$200

What is your account balance on May 1, after the monthly deposit?

- 2). Solve the following linear equation in a step-by-step fashion, justifying each step with one of the 10 axioms, substitution, and/or left/right cancellation:

$$3(x + 2) = 3$$