List of Assigned Problems

efou = every fourth

Section	Exercises
8.1	1–53odd, 61–65odd, 66–68, 73, 76–79
8.2	1–25odd, 35-41odd, 48–50
8.3	1-21 odd, $23-28$, $29-59$ odd, problems on handout
8.4	1-17 odd, $21, 29, 31, 33, 35$, problems on handout
8.5	1–21odd, 33–35, problems on handout
11.1	1–21odd, 31
11.4	1-25 odd, $27-40$, $41-47$ odd, $55-70$, $79-81$, 84
11.6	1–9odd, 13–16, 17–33odd, 39, 41–48, 65–91odd, 100–105
11.7	1–25odd, 27–32, 43–48, 49–55odd, 57–60, 61–71odd, 81–87
11.8	1–11odd, 15–19odd, 26–29
12.1	$1,\ 2,\ 7,\ 9-17,\ 20,\ 22-25,\ 33-37,\ 48-51$
12.2	1, 5, 9, 11, 13, 17, 21, 23, 25, 29, 33, 35, 37, 41, 49, 51, 58–63, 73–77
12.3	3, 5, 11, 15, 19, 23, 27, 29, 31, 37, 47–52
12.4	1–47odd, 59–67odd, 69–72, 87–90
12.5	1–29odd, 39-43
14.1	1-25 odd, $31-34$, $49-52$
15.1	5–21odd, 23–33, 66–70
15.2	1–39odd, 45–50, 51–59odd, 69–72
15.3	1–23odd, 39–47, 60–64

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More Homework Problems

Section 8.3

- 1. Suppose you deposited \$2,500 into an account that compounds quarterly. After three-and-a-half years, you have \$3,214.81 in the account. What is the annual interest rate on this account?
- 2. Today, Seth buys stock of Boeing corporation at \$70 per share. He hopes to sell it in 4 years at \$150 per share. What annual compound interest rate would this growth correspond to?
- 3. Carl and Kathy Minieri hope to retire and believe they will need to have \$200,000 in savings (in addition to income from their retirement plans). They have \$50,000 now that they can invest into an account with 6.25% interest, compounded semi-annually. How long will they have to wait to reach their target in savings?
- **4.** Carla has the opportunity to invest into an account with 7.55% interest, compounded monthly. How long would she have to wait for the investment to double?

Section 8.4

- 5. The Carlsons would like to save up for a new \$26,000 piano. They can deposit \$400 every month into an account bearing 5% interest, compounded monthly. How long will it take them to have necessary amount? Answer the same question if they can deposit \$800 every month. Will it take half as long?
- **6.** In order to save up for a town beautification project costing \$345,000, the 125 households of Webeegud have decided to each deposit \$100 every quarter into an account bearing 4.25% interest, compounded quarterly. How long will it take them to save for the project?

Section 8.5

- 7. The Nicols would like to buy a house, and figure they can afford a monthly mortgage payment of \$1100. If they can obtain a loan for 20 years at 5.125%, what is the greatest amount that they can borrow? Assuming they can afford a 10% down payment, what is the most expensive home they can buy?
- **8.** Ann Hernandez borrowed \$10,000 using a loan for 5 years with a 4.75% interest rate, compounded quarterly. She makes quarterly payments on the loan.
- a) What is her quarterly payment?
- b) Having won a little money on the lottery, Ann wishes to repay the loan after her 12th payment. What amount is due to pay off the loan?
- 9. Lauren Morse bought a \$289,000 condo a while ago. She made a 10% down payment, and got a loan for the remainder, at 6.5% interest over 30 years, compounded monthly. In the meantime, interest rates have dropped, and Lauren decided to refinance. She refinances after her 66th payment, using a loan for 25 years at 5% interest.
- a) What is the monthly payment on the first loan?
- b) What amount pays off the first loan after the 66th payment?
- c) If the bank charges her \$3,500 to refinance the loan, which Lauren adds to the principal of the second loan, what is the monthly payment on the second loan?
- d) How much would Lauren have paid over 30 years had she kept the first loan?
- e) How much will Lauren pay with the combination of the two loans, as described?