

efou = every fourth

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8.3	1, 5, 7, 11, 13, 15–25odd, 31–37odd, 41, 43
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11.7	1–25odd, 31–42, 53–60, 65–76odd, 86–93
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12.4	1–47odd, 59–67odd, 69–72, 87–90
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Section 8.4

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?

Section 8.6, 8.7

3. 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?
4. 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?