DIRECTIONS: Solve. Give monetary answers in dollars and cents ($###.##). All other answers should be rounded to two decimal places.

1. Five hundred dollars is invested at 7.6% interest compounded quarterly. Determine how much the investment is worth after...
   a. 5 years  b. 10 years  c. 15 years  d. 20 years
   $728.54  $1061.54  $1546.75  $2253.74

2. $9500 is invested at 5.25% interest compounded monthly. Determine how much the investment is worth after...
   a. 3 years  b. 8 years  c. 13 years  d. 25 years
   $11,116.70  $14,445.40  $18,770.81  $35,195.88

3. How long would it take to double a $5000 investment at 3.2% interest compounded quarterly? 21.75 years

4. How long will it take to triple your money if you invest it at a rate of 5.75% compounded quarterly? 19.24 years

5. Bank A offers 6% interest compounded monthly. Bank B offers 6.1% compounded quarterly. If an equal amount of money is invested in both banks, which bank pays more interest per year? Bank B

6. An investment of $120,000 is made at 7.5% interest compounded quarterly. Find the length of the investment if its current value is...
   a. $130,000  b. $200,000  c. $300,000
   1.08 years  6.87 years  12.33 years

7. How many dollars must be invested at 16% (compounded quarterly) to yield $10,000 at the end of six years? $3901.21

8. How much will a $4000 investment be worth after five years if it is invested at 6% interest compounded monthly? $5395.40

9. How long will it take an investment of $1000 to triple in value if it is invested at an interest rate of 12% compounded monthly? 9.20 years

10. An investor plans to have $125,000 twenty-five years from now. She has $12,500 now. What interest rate, compounded monthly, is necessary for her to reach her goal? 9.25%