## Practice

## Set



Problem: Assume someone won exactly $\$ 1,000,000$ in their state lottery, 20 payments of $\$ 50,000$ beginning in one year. Funds invested earned $10 \%$ compounded annually. Calculate the following using tables on page 93.

1. The value of the annuity today.
$\$ 425,700$
2. The value of the annuity if all funds received are invested.
3. What is the value today of your answer to question 2 ?
4. What is the value in twenty years of your answer to question 3 ?
$\qquad$ .

Problem: Solve the following problem using the monthly compounding tables above. Linda bought a car valued at $\$ 12,000$ paying for it over 3 years with interest at $10 \%$ compounded monthly. Darin bought the same car paying over 5 years at $12 \%$ compounded monthly. Use the tables above, looking up $10 \% / 12$ and (3) (12) periods for Linda and $12 \% / 12$ and (5) (12) periods for Darin.

1. Calculate the monthly payment each made.
2. Calculate the total payments each made and the resulting interest.
