

$$5. \quad A = 525 \times \frac{\left[\left(1 + \frac{0.045}{4} \right)^{4(11)} - 1 \right]}{\frac{0.045}{4}}$$

$$A = 525 \times \frac{\left[(1.01125)^{44} - 1 \right]}{0.01125}$$

$$= 525 \times 56.53072957$$

$$\$ 29678.63303$$

$$44 \times 525 = 2288$$

$$\begin{array}{r} 29678.63 \\ - 2288 \\ \hline \end{array}$$

$$\$ 27390.63$$

$$6. \quad 50,000 = \text{PMT} \times \frac{\left[\left(1 + \frac{0.045}{12} \right)^{120} - 1 \right]}{\frac{0.045}{12}}$$

$$= \text{PMT} \times \frac{\left[(1.00375)^{120} - 1 \right]}{0.00375}$$

$$= \text{PMT} \times \frac{0.5669927763}{0.00375}$$

$$\begin{array}{r} 50,000 = \text{PMT} \times 151.1980737 \\ \hline 151.1980737 \end{array}$$

$$\text{PMT} = 330.6920437$$

$$\$ 330.69$$