

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

$$\frac{0.045}{4}$$

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

$$A = 525 (56.53072957)$$

$$A = \$29,678.63$$

$$\text{Interest } 29,678.63 - 525$$

$$= 29,153.63$$

$$6.) 50,000 = \text{PMT} \left[1 + \frac{0.045}{12} \right]^{(10)(12)}$$

$$\frac{0.045}{12}$$

$$50,000 = \text{PMT} \left[(1.00375)^{120} - 1 \right]$$

$$50,000 = \text{PMT} (15.11980737)$$

$$15.11980737$$

$$\text{PMT} = \$3,306.92$$