Jane borrowed \$9500 at an interest rate of 6.9% compounded monthly for 3 years. What is the regular payment?

$$PV = $9500 R = PV_{1} - nt$$

$$1 = \frac{0.069}{12} = 0.00575$$

$$1 = 12$$

$$1 = \frac{1}{12} = \frac{9500 \times 0.00575}{1 - (1 + 0.005) \times (1 - 0.005)}$$

$$1 = \frac{54.625}{1 - (0.005)} = \frac{54.635}{1 - (0.005)} = \frac{54.63$$

The bank will extend a loan to John at 4% interest compounded monthly over 7 years. John has \$5000 for a down payment for the Audi 6 he would like to buy. The sales tax is 13% and the list price of the car is \$41, 998. How much are his regular payments?

Total Cost of cor =
$$(41,998)(013) + 41,998$$

= $5459.74 + 41,998$
P1 = $47.457.74 - 5000 = 1842,457.74$
 $1 = 10 = 0.00333$

$$n = (12)$$

$$R = \frac{PV'_{1}}{1 - (1 + 1)^{-n+}}$$

$$= \frac{(42,457.74)(0.00333)}{(1 + 0.00333)^{-(12)(7)}}$$

$$= \frac{141.3842}{1 - (1.00333)^{-84}}$$

$$= \frac{141.3842}{1.007563}$$

$$= \frac{141.3842}{0.00337}$$

$$R = 4580.1667$$