Name ___Solutions_

1. You have decided to buy a new stereo system for \$2,500 and agreed to pay in 30 equal quarterly payments at 5% interest compounded quarterly on the unpaid balance. How much are your payments? Fill in the TVM Solver table and write your answer in sentence form.

N =	30	
I% =	5	
PV =	2500	
PMT =	0 Alpha Solve	
-100.45		
FV =	0	
P/Y =	4	
C/Y =	4	

Monthly payments are \$100.45 per quarter.

2. You have purchased a new house and have a mortgage for \$70,000 at 9% compounded monthly. The mortgage will be repaid in equal monthly payments of \$629.81. How many years will it take to pay off the mortgage? Fill in the TVM Solver table and write your answer in sentence form.

N = 0 Alpha Solve	240.00
I% = 9	
PV = 70000	
PMT = -629.81	
FV = 0	
P/Y = 12	
C/Y = 12	

It will take 240/12 = 20 years to pay off the mortgage.

Find the total amount paid in interest when the mortgage is paid off. You don't need the TVM Solver for this – just "plain old arithmetic" will give you the answer. Use your common sense and determine the answer.

Total payments = 629.81*240 = 151,154.4

151,154.4 - 70,000 = \$81,154.40 in interest