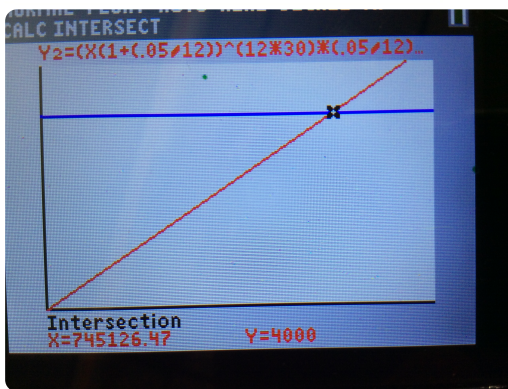
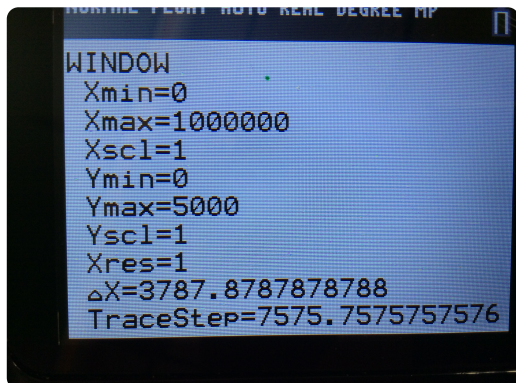
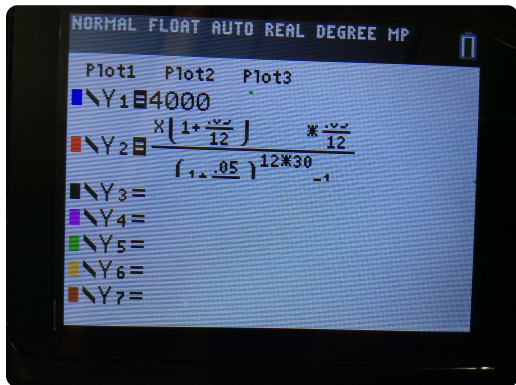
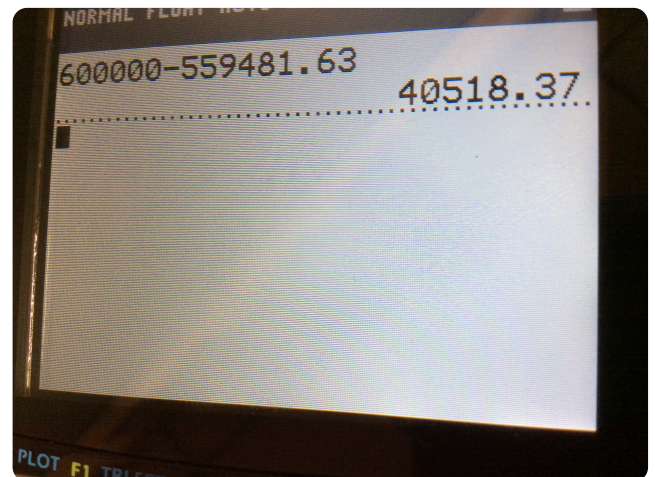
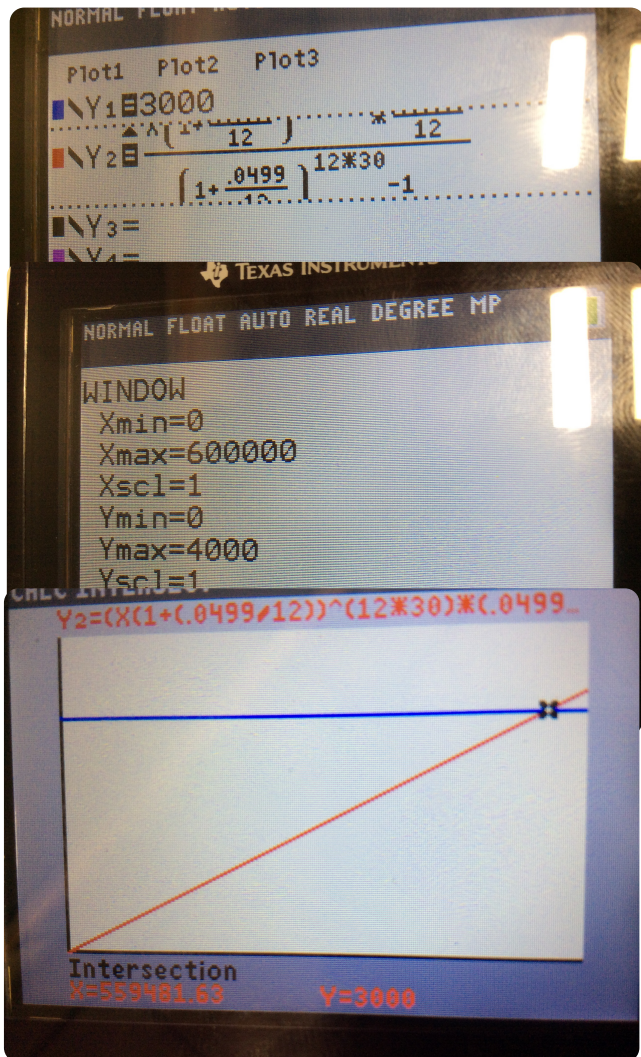


1) Suppose you and your spouse can afford mortgage payments of no more than \$ 4,000. The bank that is giving you a mortgage offers 30-year mortgages at 5 % interest. How much money can you and your spouse mortgage to buy a home?



MORTGAGE PROBLEMS WORKSHEET 10

2) Your dream home is for sale for \$ 600,000. You can afford mortgage payments (not including school taxes) of no more than \$ 3,000. By how much does the home need to be decreased so that you can afford the mortgage if a bank is offering you a 30-year mortgage at 4.99 %?





4) You wish to purchase a new Mercedes-Benz. Mercedes-Benz offers financing for 6 years at 4.99 % interest. If you can afford car payments of \$ 800 a month, what is the most expensive Mercedes-Benz you can afford?

Done Mortgage Formula by John casalmuovo

Mortgage formula

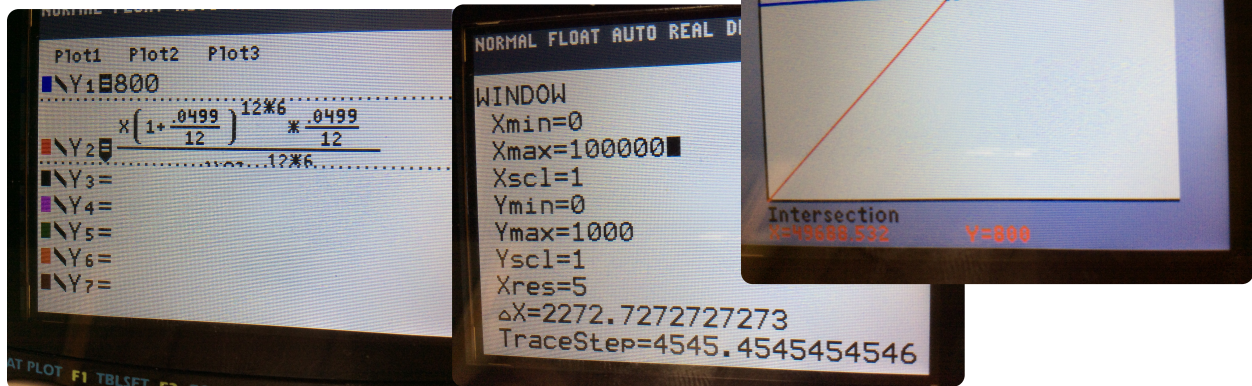
$$\text{Mortgage Payment} = \frac{M \left(1 + \frac{R}{12}\right)^{12Y} \cdot \frac{R}{12}}{\left(1 + \frac{R}{12}\right)^{12Y} - 1}$$

M = Mortgage amount (how much you are borrowing)

R = interest rate as a decimal

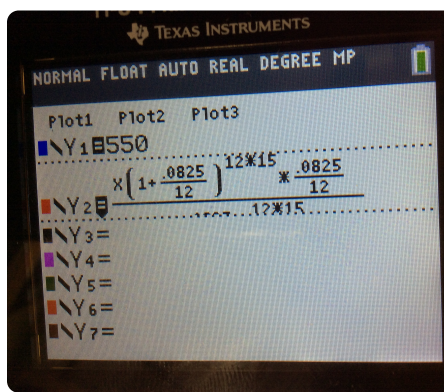
Y = years of the mortgage (usually 30 for houses)

0:02 7:41



MORTGAGE PROBLEMS WORKSHEET 10

3) A Winnebago dealership offers 15-year mortgages of their RVs at 8.25 % interest. You can afford to have monthly payments of no more than \$ 550. What is the most expensive RV you can purchase under these conditions?



NORMAL FLOAT AUTO REAL

WINDOW

Xmin=0
Xmax=300000
Xscl=1
Ymin=0
Ymax=1000
Yscl=1
Xres=5
ΔX=378.78787878
TraceStep=757.5

