- 3. Two years from now, you would like to have \$10,500.00 for your first semester of university. A wise financial advisor offers you a rate of 6.2% p.a. compounded monthly.
 - a) How much would you have to invest today to achieve your goal? (3 marks)

- b) You don't have the money to invest today as one lump sum! So, you have decided to start a side business of tutoring your friends in financial mathematics! You do quite well and consistently make \$90 every week tutoring. You invest your money on a weekly basis for two years, with the hope that you can have the \$10500.00 needed for the first semester.
 - i) How much are all your weekly investments worth in 2 years if you earn 6.2% p.a. compounded weekly? (3 marks)

ii) Do you have enough money to achieve your goal? Justify your answer. (2 marks)

No, sadly you are of by quite alst. You still need \$ 8206.66

Your investments need to be greater of the goal of \$ 10.00.00.

For some as your good.

Should be stouched saving earlier! "

Thist > bool - In us tout

- 10000 - 2293.34

- 48206.66

4. If you invest \$350 at 9% compounded quarterly, how long, to the nearest half of a year, will it take for your money to triple? (4 marks)

- 5. You've just bought your first car! It's a 1978 AMC Pacer....known as the fishbowl of cars. It's a beauty! You paid just \$5999.50 for this awesome car! The interest rate you got from the bank for your car loan is 7.5% p.a. compounded biweekly. The loan is for 5 years.
 - a) Calculate your biweekly car payments. (4 marks)

b) How much money did the bank make? (2 marks)

(Bi-weekly payment x # of payments) - Original armount = Bunk Money Earned

55.41 × (5×26) = 5999.50 =

B1203.80 = Bank Money Earnel

1. It bank camed \$1703.80 off the loan.

6. You have won a prestigious award for your hard work this year at CHCI. One week from today, you will start receiving weekly payments of \$15 for two years. If money earns 13% compounded weekly, how much money will CHCI need to put into an account today, so that there is enough money to fund the award? (3 marks)

7. Seven years ago you invested \$500 at x% p.a. compounded semi-annually for four years. Then you took that money and invested it for 3 more years at 11% p.a. compounded quarterly and ended up with \$975.23. Determine the annual interest rate x to the nearest tenth. (4 marks)