Advanced Math 1-2 (Day 2) Lines and Slope

93) Your salary was \$28,500 in 1994 and \$32,900 in 1996. If your salary follows a linear growth pattern, what will your salary be in 1999?

- 99) A contractor purchases a piece of equipment for \$36,500. The equipment requites an average expenditure of \$5.25 per hour for fuel and maintenance, and the operator is paid \$11.50 per hour.
 - a) Write a linear equation giving the total cost *C* of operating this equipment for *t* hours. (Include the purchase cost of the equipment.)
 - b) Assume customers are charged \$27 per hour of machine use, write an equation for the revenue R derived from t hours of use.
 - c) Use the profit formula, P = R C, to write an equation for the profit derived from *t* hours of use.
 - d) Use the result in part c to find the number of hours this equipment must be used to find the break even point (a profit of \$0).

Assignment: pg. 131 91 - 104 all, 107-110 all