

Name:

QUIZ – MATH GRADE 11 SL

1. (35%) A deposit of 500\$ is made at 8%. Write the expression for the amount of money in the account after 9 years in case:
 - a. (7%) The amount is compounded annually. $A = \text{_____} (1 + \text{_____})$
 - b. (7%) The amount is compounded every 4 months. $A = \text{_____} (1 + \text{_____})$
 - c. (7%) The amount is compounded every month. $A = \text{_____} (1 + \text{_____})$
 - d. (7%) The amount is compounded every day. $A = \text{_____} (1 + \text{_____})$
 - e. (7%) The amount is compounded x times a year. $f(x) = \text{_____} (1 + \text{_____})$

2. (20%) Find the interest rate applied to 400\$ in a deposit if the owner has received 500\$ after 4 years, compounded every 2 months.

3. (45%) Due to bad weather in a certain forest the rabbit population P is decreasing at 2% a month. Find.
 - a. (15%) An expression for the population of rabbits in the forest in terms of P .
 - b. (15%) The percentage of rabbits left in the forest after 2 months.
 - c. (15%) The number of months it will take the rabbits population to lose half.