Modeling Review Name_____

1. A rental car company charges $30 plus $.20 per mile to rent a car. The **cost, C (in dollars)** would depend on the **number of miles driven, m**, according to the rule **C = 30 + .20m**

a. Use the function rule to complete this table of sample (*n*, *C*) values:

#of miles (m)	0	1	2	3	4	5	10	20	50
Cost(C)									

c. **i)** How much will the car rental cost if they don't drive the car at all?

ii) How can this information be seen in the rule **C = 30 + .20m**

iii) How can this information be seen In **the table** of sample (*m*, *C*) values?

iv) How can this information be seen In **the graph**?

d. i) How much does each mile driven cost?

ii) How can this information be seen in the rule **C = 30 + .20m**

iii) How can this information be seen in the **table**?

iv) How can this information be seen in the In the **graph**?

e. Write a recursive rule for the situation described above.

2. The graph below shows pay plans offered by 3 banks to employees who collect credit card applications.

Atlantic Bank: A = 50 + 2n Boston Bank: B = 40 +5n Consumer Bank: C = 50 + 3n

Match each function rule with its graph by placing the letter A, B, or C next to the correct graph.

Explain what the numbers in the rule for Consumer Bank tell you about the relationship between daily pay and number of credit card applications collected.