**Exponential Growth / Decay Equation Writing**

2.) From 2000 – 2010 a city had a 2.5% annual decrease in population. The city had 2,950,000 people in 2000.

a.) Identify the initial amount (a).

b.) **Growth** or **Decay**

c.) Growth/Decay Factor (b)

d.) Exponential Equation (y = a • bx):

1.) You start an account with $500 and an interest rate of 6% per year.

a.) Identify the initial amount (a).

b.) **Growth** or **Decay**

c.) Growth/Decay Factor (b)

d.) Exponential Equation (y = a • bx):

4.) You start an account with $2500 and an interest rate of 6.5% per year.

a.) Identify the initial amount (a).

b.) **Growth** or **Decay**

c.) Growth/Decay Factor (b)

d.) Exponential Equation (y = a • bx):

3.) You buy a car for $8000 that depreciates at a rate of 11% a year.

a.) Identify the initial amount (a).

b.) **Growth** or **Decay**

c.) Growth/Decay Factor (b)

d.) Exponential Equation (y = a • bx):