Exponential Functions Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

General Form:

Bacteria in a dirty glass triple every hour. If there are 25 bacteria to start, how many bacteria will there be after 1 full day?

A zombie infection at Thurston High School grows by 8.5% per hour. The initial group of zombies was a group of 4 freshmen. How many zombies are there after 6 hours?

Exponential Growth:

Cars depreciate in value over time. A used car was purchased for $15,999 and has a depreciation value of 15% per year. How much is the car worth after 4 years?

Exponential Decay:

If you start a bank account with $10,000 and your bank compounds the interest quarterly at a rate of 8%, how much money will you have after 5 years?

Compounding Interest:

