Exponential Functions vs. Power Functions vs. Allometric Functions:

Exponential Growth vs. Exponential Decay (pg. 159):

Inverse of exponential functions (pg. 161):

Laws of Logarithms (pg. 162):

1.

2.

3.

4.

5.

Natural Exponentials and Logarithms (pg. 163 – 164):

$e = 2.718281828459...$

Exponential Growth:

Exponential Decay:

Special properties:

Initial Value:

Doubling Time:

Half-life:

Growth/decay rate independent of time:

Other examples:

Beer-Lambert Law (pg. 164):

Richter Scale (pg. 165):

Sound Level:

pH: