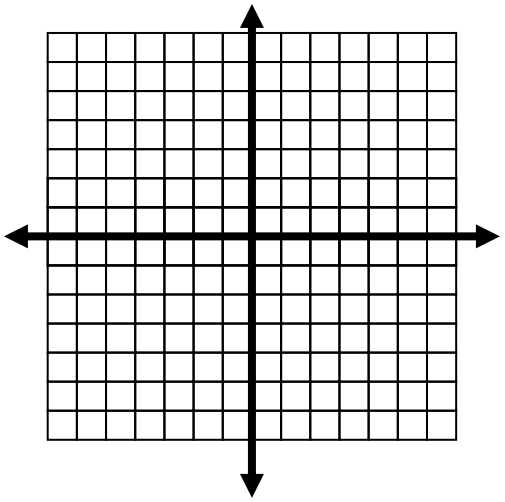
**Graphing Exponential Functions**

**Name_____ Class Period_____**

**Use a table of values to graph the following exponential functions. Use your graph to fill in the characteristics.**

**1.** $y = 2^x$



**Y – intercept_____**

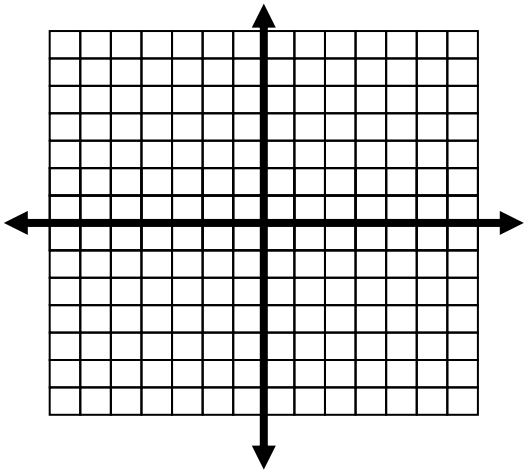
**Asymptote_____**

**Domain_____**

**Range_____**

**Increasing or Decreasing**

**2.** $y = 2^x - 3$



**Y – intercept_____**

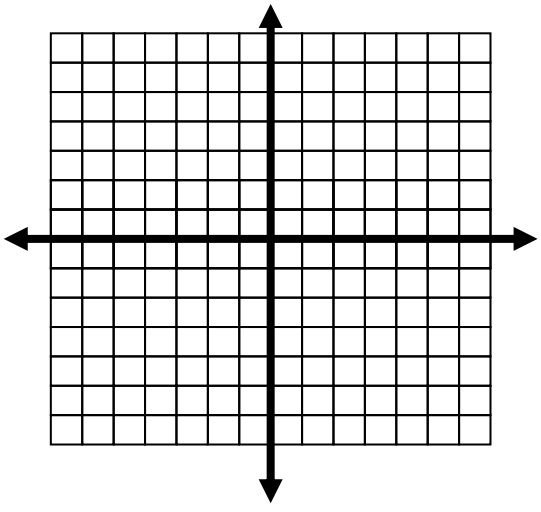
**Asymptote_____**

**Domain_____**

**Range_____**

**Increasing or Decreasing**

**3.** $y = 2^x + 1$



**Y – intercept_____**

**Asymptote_____**

**Domain_____**

**Range_____**

**Increasing or Decreasing**

**4.** $y = 2^{x+3}$

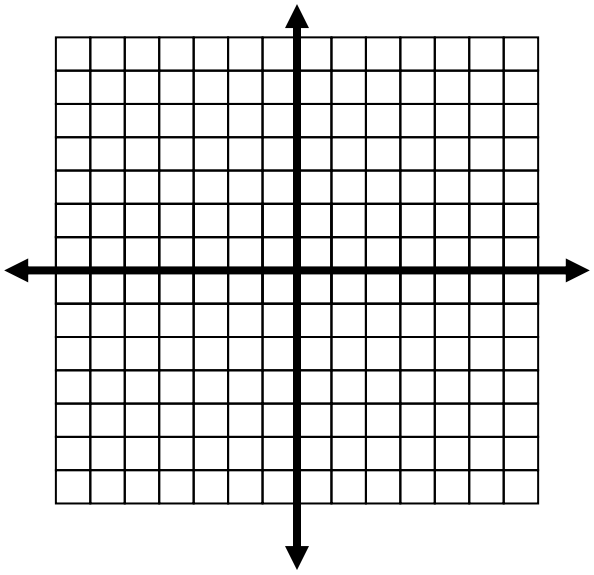
**Y – intercept**_____

**Asymptote**_____

**Domain**_____

**Range**_____

**Increasing or Decreasing**



**5.** $y = 2^{x-4}$

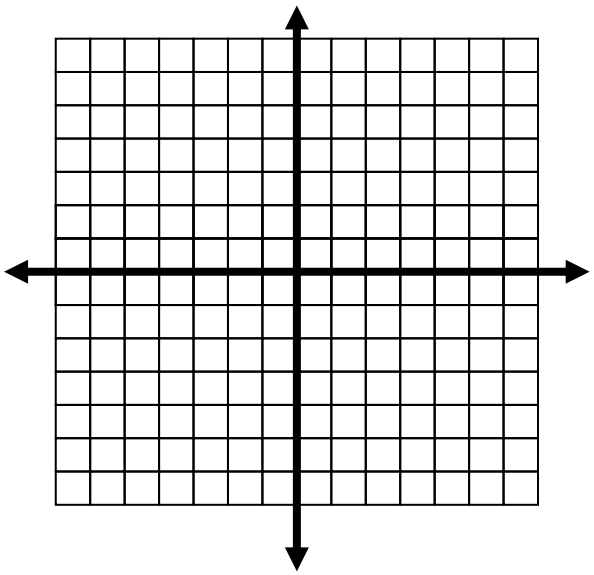
**Y – intercept**_____

**Asymptote**_____

**Domain**_____

**Range**_____

**Increasing or Decreasing**



**6.** $y = -(2)^{x}$

**Y – intercept**_____

**Asymptote**_____

**Domain**_____

**Range**_____

**Increasing or Decreasing**