

Name: _____ Date: _____ Period: _____

Graphing Exponential Functions

Parameter Changes Practice

Graph the following functions on a piece of graph paper. **Label six points**, and then state the **Domain** and **Range**.

1. $y = 2^x + 2$

2. $y = 2^{x+1} - 1$

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

Domain: _____ Domain: _____ Domain: _____

Range: _____ Range: _____ Range: _____

4. $y = -(3^x) - 2$

5. $y = -(3^{x+2}) - 5$

6. $y = (4^{x-5}) - 15$

Domain: _____ Domain: _____ Domain: _____

Range: _____ Range: _____ Range: _____

7. Graph the Parent function $y = 3^x$. Using this graph answer the following questions.

8.

a) Write the equation of the graph that is shifted 4 units up.

$y =$ _____

b) Graph the equation in part a) on the same graph as the parent function.

c) State the domain and range of the new graph.

Domain: _____

Range: _____

