Algebra 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Exponential Functions Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_

**Identify the transformations for each exponential function:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.) | | | | |
| **Parent Function:** | **Vertical Reflection?** | **Horizontal Reflection?** | **Horizontal Shift: Direction? How many?** | **Vertical Shift: Direction? How many?** |
|  |  |  |  |  |
| 2.) | | | | |
| **Parent Function:** | **Vertical Reflection?** | **Horizontal Reflection?** | **Horizontal Shift: Direction? How many?** | **Vertical Shift: Direction? How many?** |
|  |  |  |  |  |
| 3.) | | | | |
| **Parent Function:** | **Vertical Reflection?** | **Horizontal Reflection?** | **Horizontal Shift: Direction? How many?** | **Vertical Shift: Direction? How many?** |
|  |  |  |  |  |

**Graph each exponential function using transformations.**

4.)  5.) 

|  |  |
| --- | --- |
| graph | graph |