Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Graphing Transformations to Exponential Functions**

**Graphing Exponential Functions**

1. 



|  |  |  |
| --- | --- | --- |
| X |  |  |
| -4 |  |  |
| -3 |  |  |
| -2 |  |  |
| -1 |  |  |
| 0 |  |  |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |

Transformations: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_ Range: \_\_\_\_\_\_\_\_\_\_\_\_\_

Asymptote: \_\_\_\_\_\_\_\_\_\_\_ Increasing/ Decreasing

1. 



|  |  |  |
| --- | --- | --- |
| X |  |  |
| -4 |  |  |
| -3 |  |  |
| -2 |  |  |
| -1 |  |  |
| 0 |  |  |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |

Transformations: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_ Range: \_\_\_\_\_\_\_\_\_\_\_\_\_

Asymptote: \_\_\_\_\_\_\_\_\_\_\_ Increasing/ Decreasing

1. 



|  |  |  |
| --- | --- | --- |
| X |  |  |
| -4 |  |  |
| -3 |  |  |
| -2 |  |  |
| -1 |  |  |
| 0 |  |  |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |

Transformations: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_ Range: \_\_\_\_\_\_\_\_\_\_\_\_\_

Asymptote: \_\_\_\_\_\_\_\_\_\_\_ Increasing/ Decreasing

4) What transformations would be applied to the following equations?

 a) 

 b) 

 c) 

**Determining if an exponential graph is growth or decay:**

Growth if b>1 Decay if 0<b<1

5)Determine if the following functions are growth or decay? Increasing or decreasing?

1.  b)  c) 

d)  e)  f) 