

Graphing and Characteristics of Exponential Equations

Name _____ Date _____

Transformations:

Domain:

Range:

Asymptote:

X-Int:

Y-Int:

Increasing or Decreasing

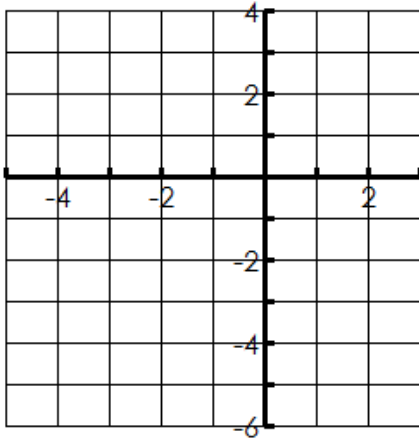
End Behavior:

As $x \rightarrow$ _____, $f(x) \rightarrow$ _____

As $x \rightarrow$ _____, $f(x) \rightarrow$ _____

1. $y = -5^x$

Transformations: _____



State 3 points on Graph:

Domain: _____ Range: _____

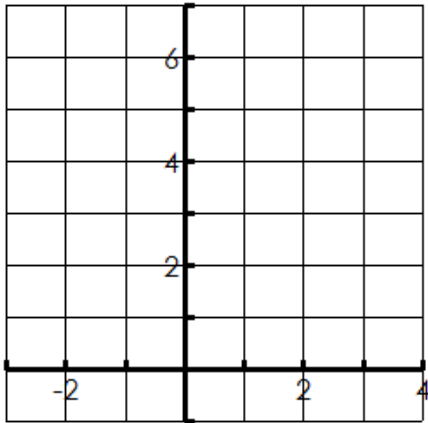
Asymptote: _____

Increasing or Decreasing?

X-intercept: _____ Y-intercept: _____

End Behavior: As $x \rightarrow$ _____, $f(x) \rightarrow$ _____
As $x \rightarrow$ _____, $f(x) \rightarrow$ _____

2. $y = \left(\frac{1}{2}\right)^x + 3$



Transformations: _____

State 3 points on Graph: _____

Domain: _____ Range: _____

Asymptote: _____

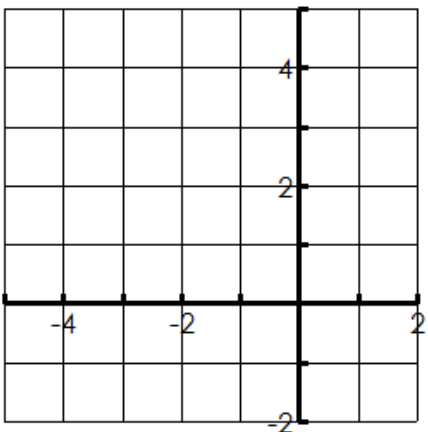
Increasing or Decreasing? _____

X-intercept: _____ Y-intercept: _____

End Behavior: As $x \rightarrow$ _____, $f(x) \rightarrow$ _____

As $x \rightarrow$ _____, $f(x) \rightarrow$ _____

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



Transformations: _____

State 3 points on Graph: _____

Domain: _____ Range: _____

Asymptote: _____

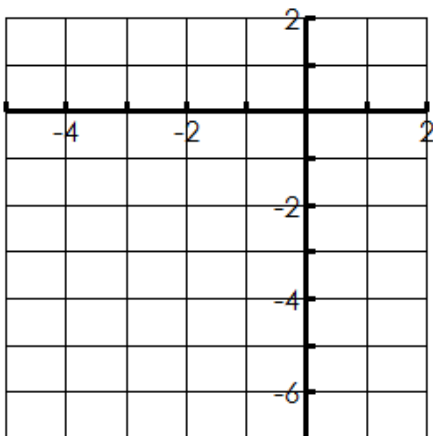
Increasing or Decreasing? _____

X-intercept: _____ Y-intercept: _____

End Behavior: As $x \rightarrow$ _____, $f(x) \rightarrow$ _____

As $x \rightarrow$ _____, $f(x) \rightarrow$ _____

4. $y = -3^{x+1} - 2$



Transformations: _____

State 3 points on Graph: _____

Domain: _____ Range: _____

Asymptote: _____

Increasing or Decreasing? _____

X-intercept: _____ Y-intercept: _____

End Behavior: As $x \rightarrow$ _____, $f(x) \rightarrow$ _____

As $x \rightarrow$ _____, $f(x) \rightarrow$ _____