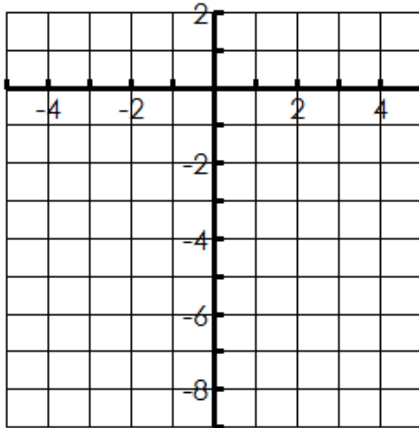


Name: _____

Date: _____

Graphing and Characteristics of Exponential Equations

1. $y = -5^x - 3$



Transformations: _____

State 3 points on Graph _____

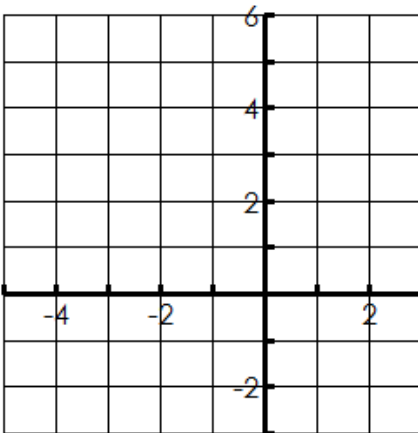
Domain _____ Range _____

Asymptote _____ Increasing or Decreasing _____

X-intercept _____ Y-intercept _____

End Behavior $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$
 $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$

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



Transformations: _____

State 3 points on Graph _____

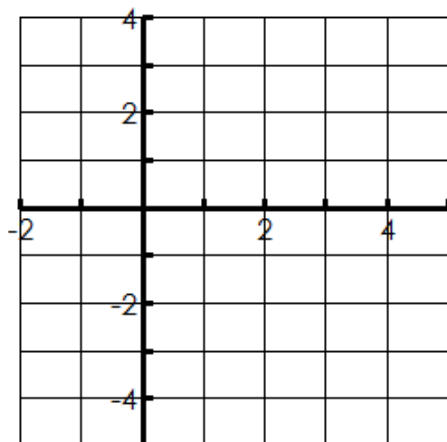
Domain _____ Range _____

Asymptote _____ Increasing or Decreasing _____

X-intercept _____ Y-intercept _____

End Behavior $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$
 $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$

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



Transformations: _____

State 3 points on Graph _____

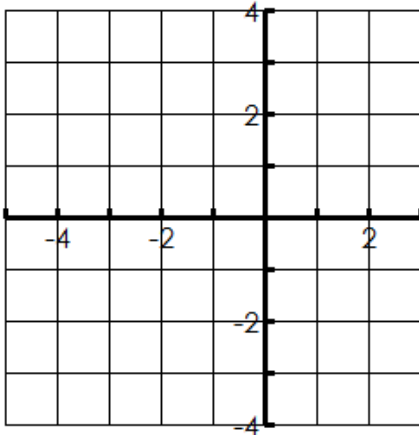
Domain _____ Range _____

Asymptote _____ Increasing or Decreasing _____

X-intercept _____ Y-intercept _____

End Behavior $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$
 $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$

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



Transformations: _____

State 3 points on Graph _____

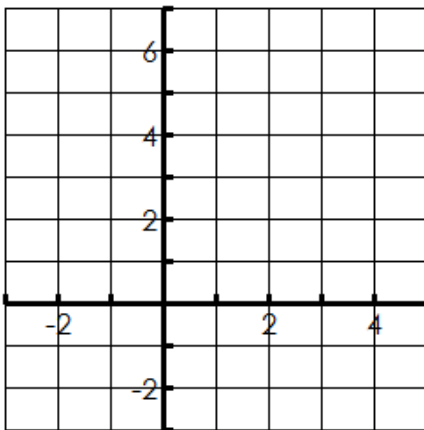
Domain _____ Range _____

Asymptote _____ Increasing or Decreasing _____

X-intercept _____ Y-intercept _____

End Behavior $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$
 $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$

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



Transformations: _____

State 3 points on Graph _____

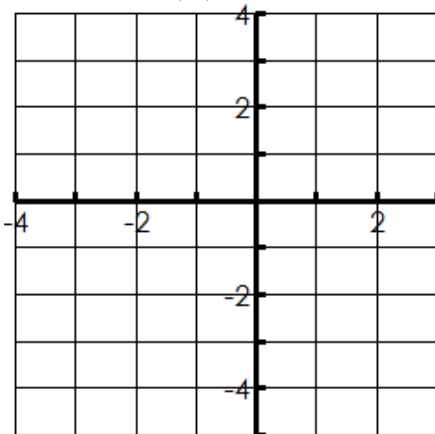
Domain _____ Range _____

Asymptote _____ Increasing or Decreasing _____

X-intercept _____ Y-intercept _____

End Behavior $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$
 $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$

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



Transformations: _____

State 3 points on Graph _____

Domain _____ Range _____

Asymptote _____ Increasing or Decreasing _____

X-intercept _____ Y-intercept _____

End Behavior $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$
 $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$