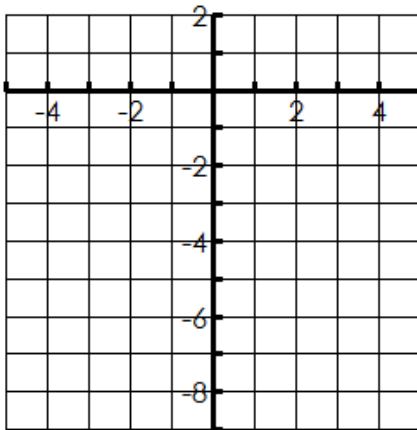Name: _____   Date: _____

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

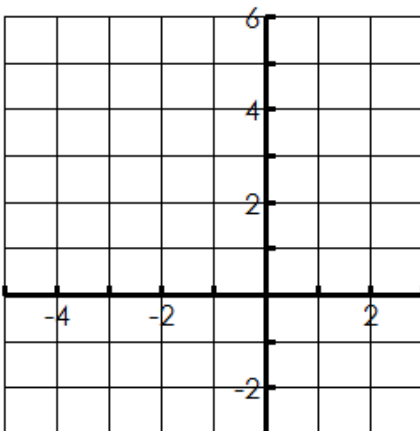Transformations: _____

State 3 points on Graph_____

Domain_____   Range_____

Asymptote_____   Increasing or Decreasing

X-intercept _____   Y-intercept _____

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

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

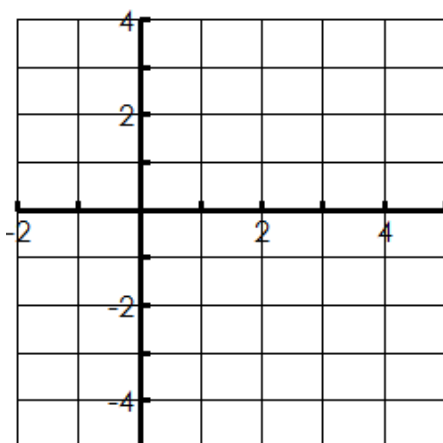Transformations: _____

State 3 points on Graph_____

Domain_____   Range_____

Asymptote_____   Increasing or Decreasing

X-intercept _____   Y-intercept _____

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

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

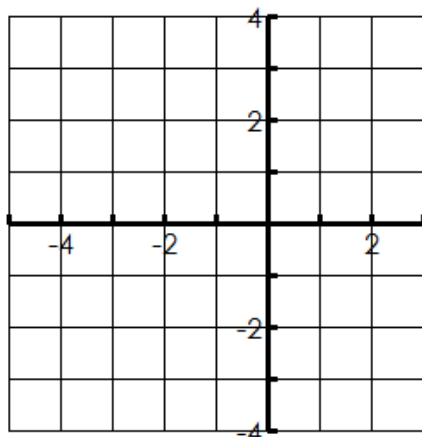Transformations: _____

State 3 points on Graph_____

Domain_____   Range_____

Asymptote_____   Increasing or Decreasing

X-intercept _____   Y-intercept _____

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

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

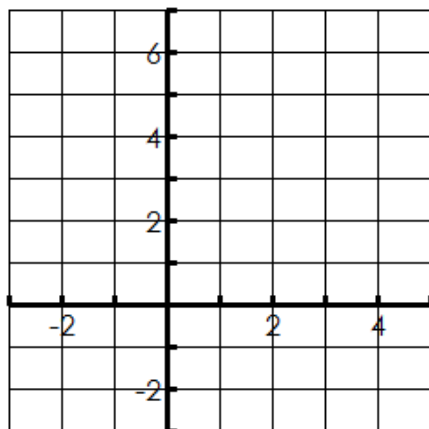Transformations: _____

State 3 points on Graph_____

Domain_____   Range_____

Asymptote_____   Increasing or Decreasing

X-intercept _____   Y-intercept _____

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

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

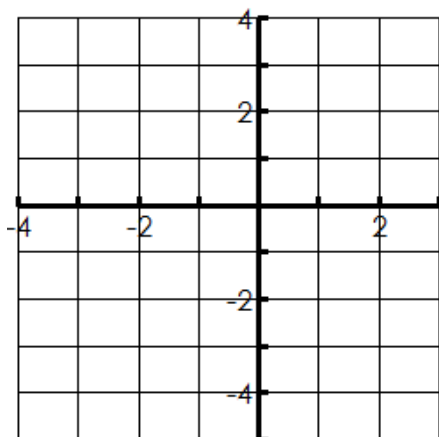Transformations: _____

State 3 points on Graph_____

Domain_____   Range_____

Asymptote_____   Increasing or Decreasing

X-intercept _____   Y-intercept _____

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

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

Transformations: _____

State 3 points on Graph_____

Domain_____   Range_____

Asymptote_____   Increasing or Decreasing

X-intercept _____   Y-intercept _____

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