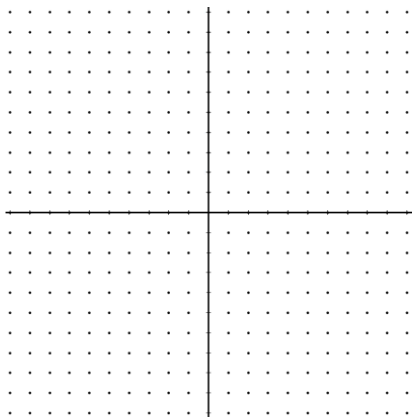


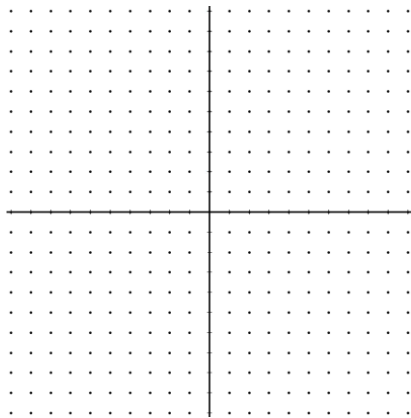
HW #3 Graphing Transformations of Exponential Functions

Graph the given exponential function as well as the asymptote. Be sure to identify your two critical points, asymptote, y – intercept, domain and range, and end behavior for each graph.

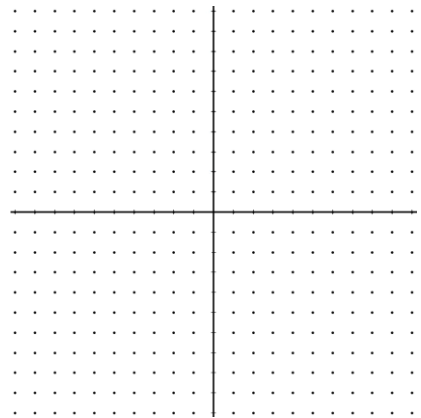
1. $y = 2(4)^x$



2. $y = -3(2)^x$

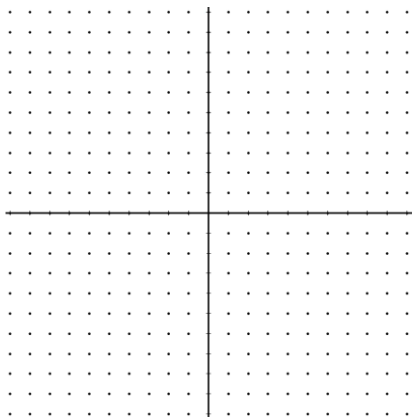


3. $y = 8(\frac{1}{4})^x$

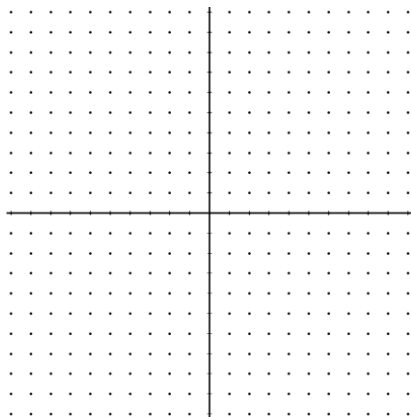


<p>Critical Points: _____</p> <p>Asymptote: _____</p> <p>y – intercept: _____</p> <p>Domain: _____ Range: _____</p> <p>End Behavior: $x \rightarrow \infty$, _____</p> <p style="padding-left: 40px;">$x \rightarrow -\infty$, _____</p>	<p>Critical Points: _____</p> <p>Asymptote: _____</p> <p>y – intercept: _____</p> <p>Domain: _____ Range: _____</p> <p>End Behavior: $x \rightarrow \infty$, _____</p> <p style="padding-left: 40px;">$x \rightarrow -\infty$, _____</p>	<p>Critical Points: _____</p> <p>Asymptote: _____</p> <p>y – intercept: _____</p> <p>Domain: _____ Range: _____</p> <p>End Behavior: $x \rightarrow \infty$, _____</p> <p style="padding-left: 40px;">$x \rightarrow -\infty$, _____</p>
--	--	--

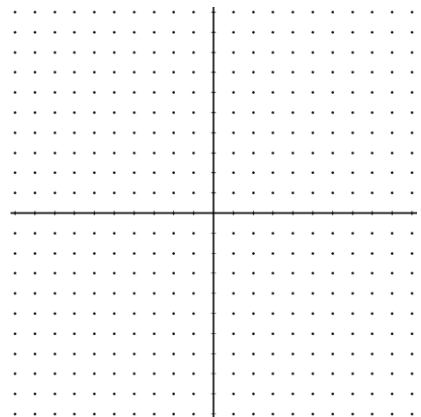
4. $y = \frac{1}{2}(16)^x - 4$



5. $y = -2(\frac{1}{2})^{x+4}$

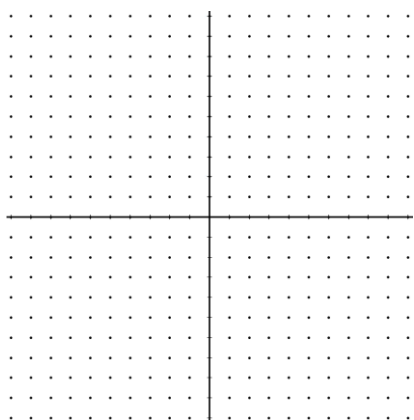


6. $y = 10(\frac{3}{5})^x - 5$

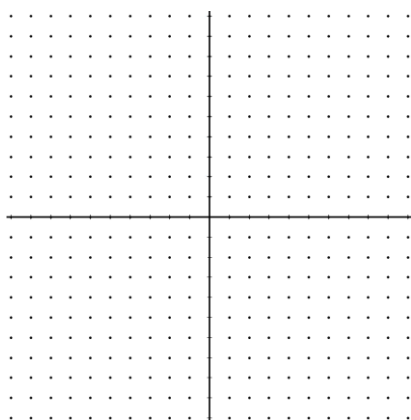


<p>Critical Points: _____</p> <p>Asymptote: _____</p> <p>y – intercept: _____</p> <p>Domain: _____ Range: _____</p> <p>End Behavior: $x \rightarrow \infty$, _____</p> <p style="padding-left: 40px;">$x \rightarrow -\infty$, _____</p>	<p>Critical Points: _____</p> <p>Asymptote: _____</p> <p>y – intercept: _____</p> <p>Domain: _____ Range: _____</p> <p>End Behavior: $x \rightarrow \infty$, _____</p> <p style="padding-left: 40px;">$x \rightarrow -\infty$, _____</p>	<p>Critical Points: _____</p> <p>Asymptote: _____</p> <p>y – intercept: _____</p> <p>Domain: _____ Range: _____</p> <p>End Behavior: $x \rightarrow \infty$, _____</p> <p style="padding-left: 40px;">$x \rightarrow -\infty$, _____</p>
--	--	--

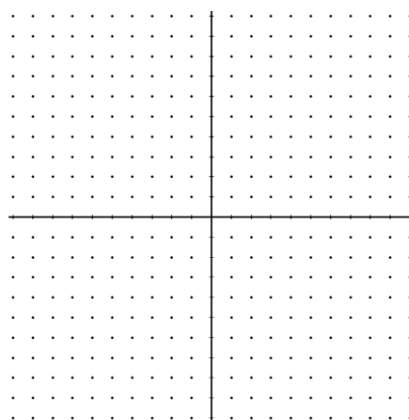
7. $y = -(5)^{x+3} + 4$



8. $y = 3(2)^{x-4} - 6$



9. $y = (\frac{1}{3})^{x+5} - 5$



Critical Points: _____ Asymptote: _____ y – intercept: _____ Domain: _____ Range: _____ End Behavior: $x \rightarrow \infty$, _____ $x \rightarrow -\infty$, _____	Critical Points: _____ Asymptote: _____ y – intercept: _____ Domain: _____ Range: _____ End Behavior: $x \rightarrow \infty$, _____ $x \rightarrow -\infty$, _____	Critical Points: _____ Asymptote: _____ y – intercept: _____ Domain: _____ Range: _____ End Behavior: $x \rightarrow \infty$, _____ $x \rightarrow -\infty$, _____
---	---	---