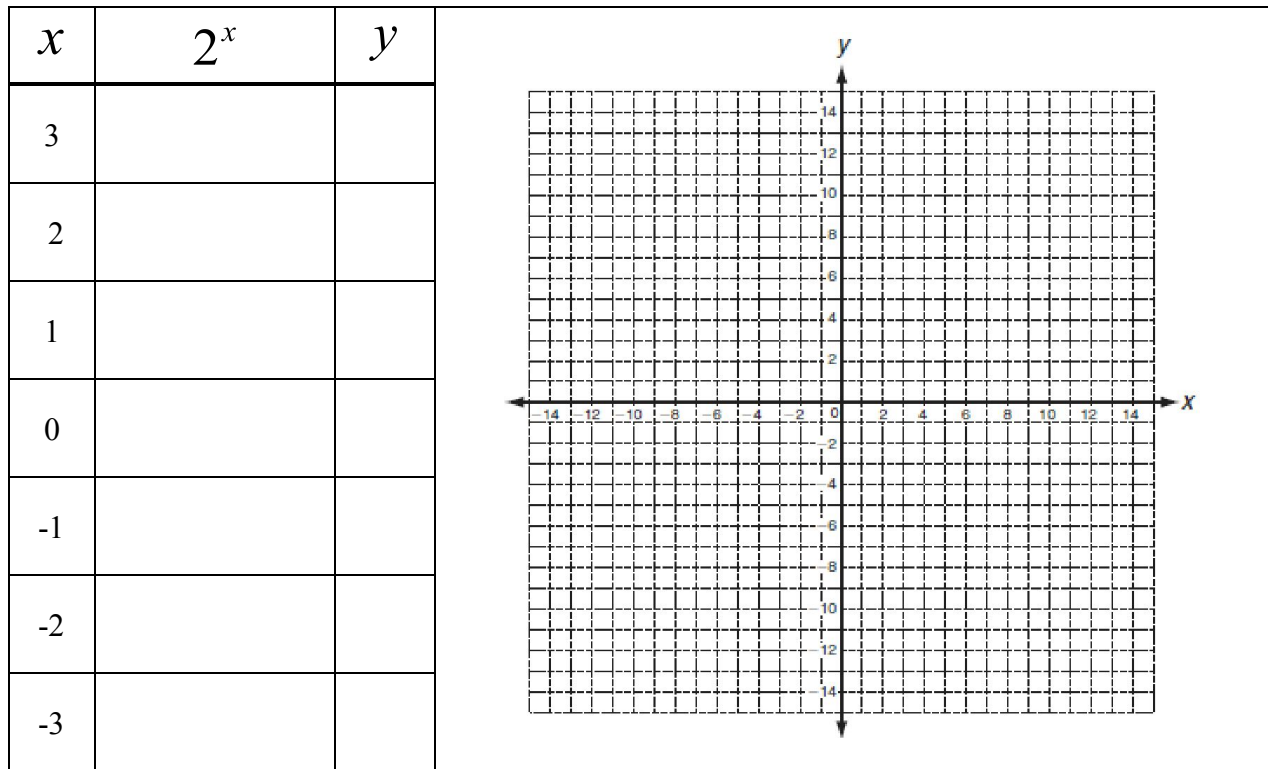


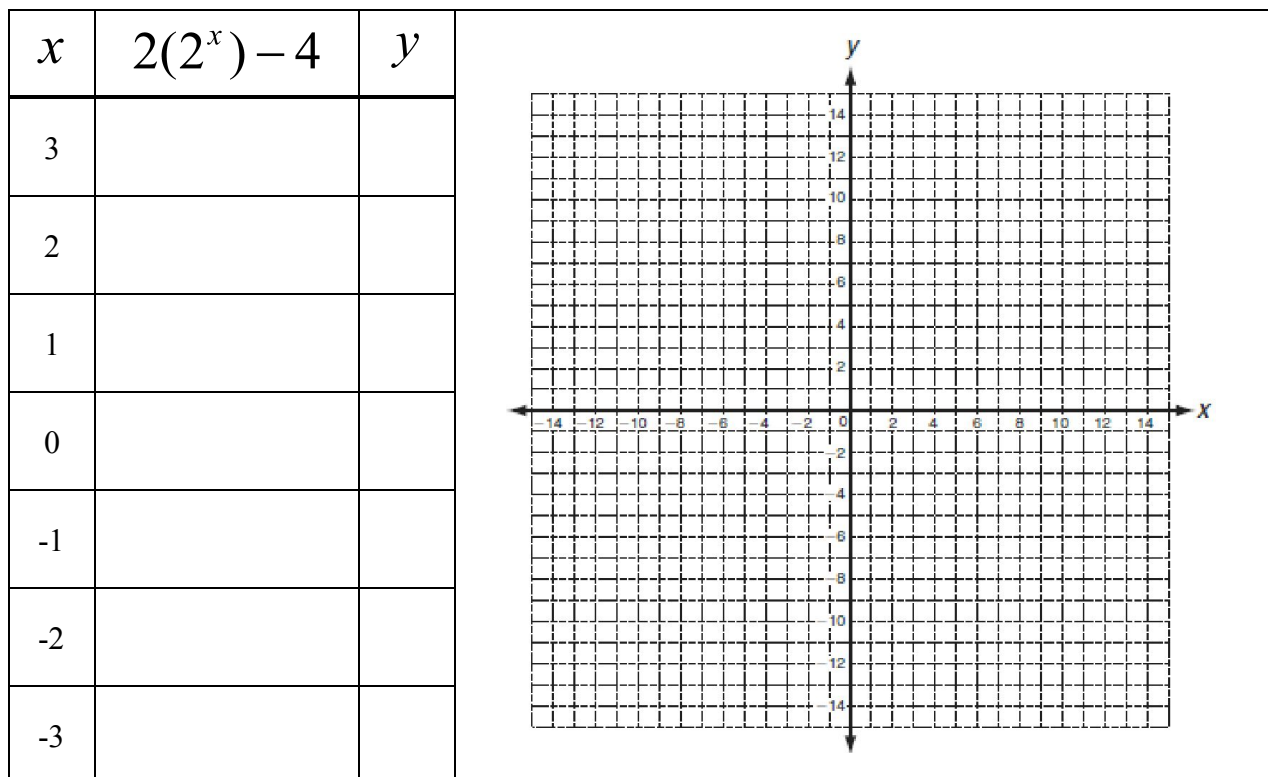
Exponential Function Worksheet

Complete the table for each exponential function, and then graph the exponential curve.

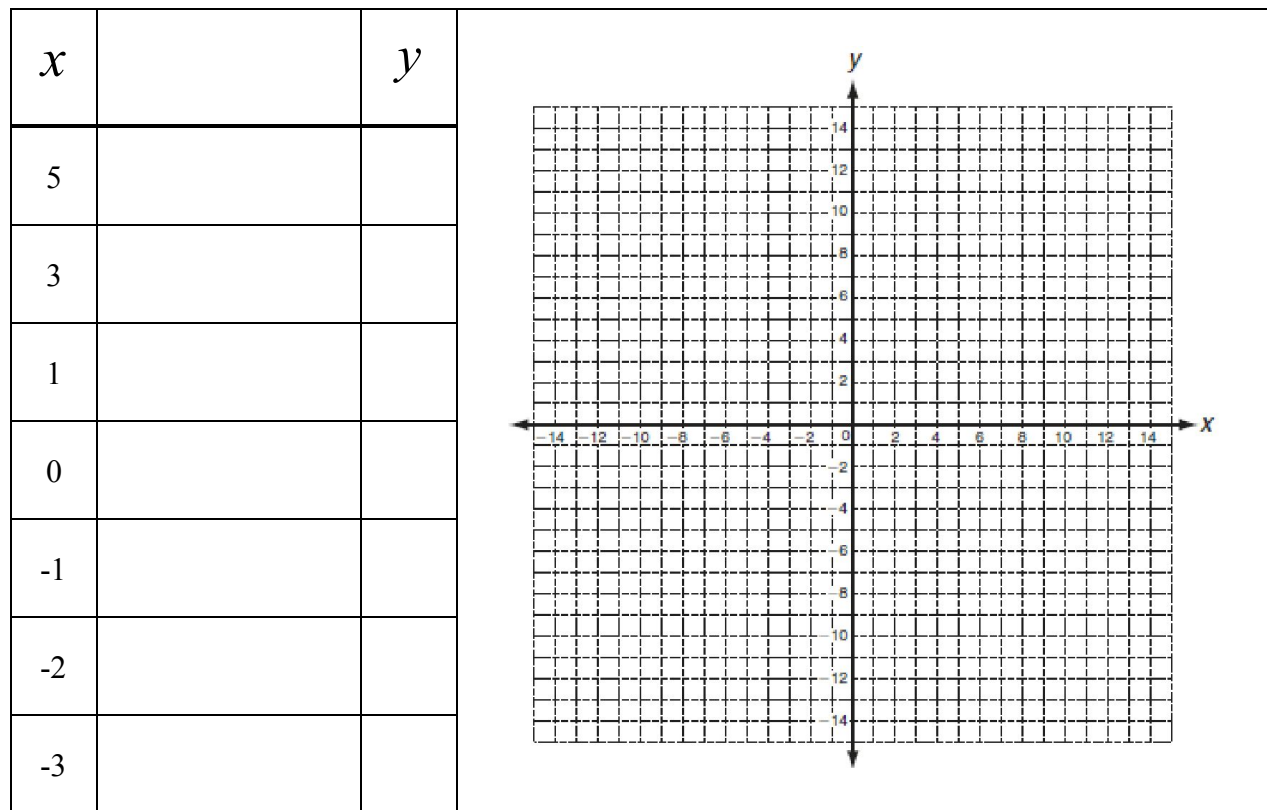
A.) $y = 2^x$



B.) $y = 2(2^x) - 4$



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



1. What value does each graph appear to approach as it begins to “flatten out”?

Graph A: _____ Graph B: _____ Graph C: _____

2. Do you see this “asymptote” value in each corresponding equation?

3. If so, where?

4. In which direction does each graph “open”?

Graph A: _____ Graph B: _____ Graph C: _____

5. Which value on each equation do you think determines the direction a graph opens?

6. What is the “leading coefficient” of each equation?

Equation A: _____ Equation B: _____ Equation C: _____

7. Identify the leading coefficient and asymptote of: $y = a(b^x) + c$.