

### **Example 1**

Create a table of values for the exponential function  $f(x) = 3(2)^x + 4$ . Identify the asymptote and  $y$ -intercept of the function. Plot the points and sketch the graph of the function, and describe the end behavior.

### **Example 2**

Create a table of values for the exponential function  $f(x) = -1(3)^x - 2$ . Identify the asymptote and  $y$ -intercept of the function. Plot the points and sketch the graph of the function, and describe the end behavior.

### **Example 3**

Create a table of values for the exponential function  $f(x) = 4\left(\frac{2}{3}\right)^x - 3$ . Identify the asymptote and  $y$ -intercept of the function. Plot the points and sketch the graph of the function, and describe the end behavior.