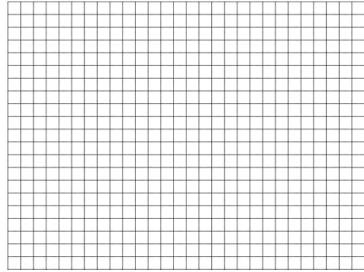
I. Graphs of Exponential Functions

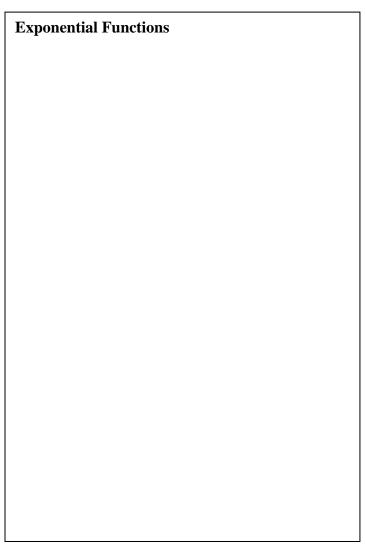
Graph each of the following on the same plot and state the end behavior for each function. Specify at least 3 ordered pairs for each graph.

1.
$$y = 2^x$$



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

3.
$$y = -2^{x+3} - 1$$



II. **Practice**

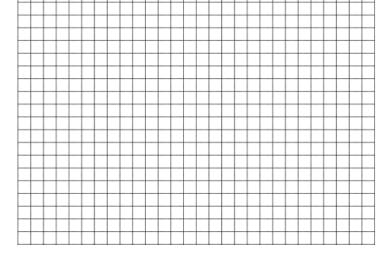
Graph each of the following and state the end behavior for each function. They have been grouped to graph together on the same plot. Specify at least 3 ordered pairs for each graph, along with the equation for any asymptotes. Check you graphs using Desmos or a graphing calculator.

4.
$$y = 3^x$$

5.
$$y = -(3^x)$$

6.
$$y = 3^{-x}$$

$$7. \quad y = \left(\frac{1}{3}\right)^x$$



8.
$$y = 2^x - 3$$

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

10.
$$y = 2^{-x}$$

11.
$$y = -2^{x+3} + 1$$

12. $y = \left(\frac{1}{2}\right)^{x-3} - 4$

