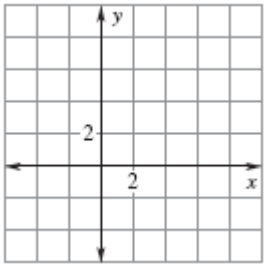
**Name** _____ **Exponential Decay Graphs – 7.2**

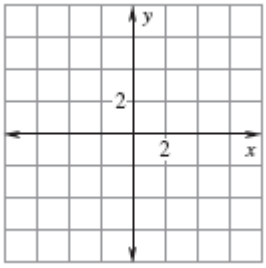
**LESSSON 7.2**
*For use with pages 486-491*

**Graph the function. If the graph involves a transformation, sketch the graph of $f(x) = ab^x$ first, then show the translation. <u>State the domain and range.</u> Include a list of points that you plotted.**

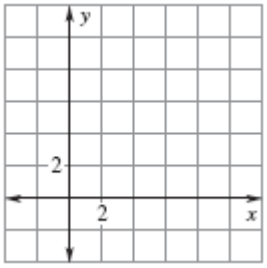
**1.** $f(x) = \left(\frac{1}{3}\right)^{x+1} + 2$



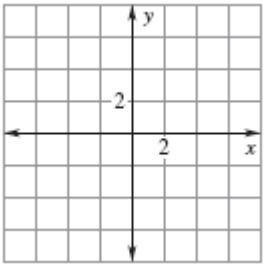

**2.** $f(x) = \left(\frac{1}{2}\right)^{x} - 3$



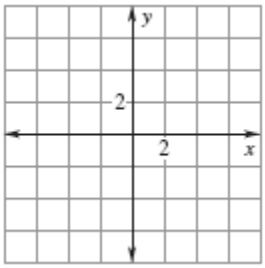

**3.** $f(x) = 3\left(\frac{1}{4}\right)^{x-2} + 1$




**4.** $f(x) = -\left(\frac{2}{3}\right)^{x} + 3$

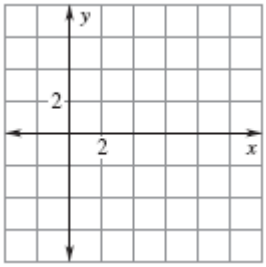


**5.** $f(x) = 4\left(\frac{1}{2}\right)^{x+1} - 5$

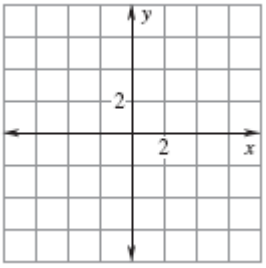



$f(x) = -2\left(\frac{1}{6}\right)^{x-4} + 6$

**6.**




*7.* $f(x) = 4\left(\frac{1}{2}\right)^{x-1} - 3$




*8.* $f(x) = 3\left(\frac{3}{4}\right)^{x+2} + 1$