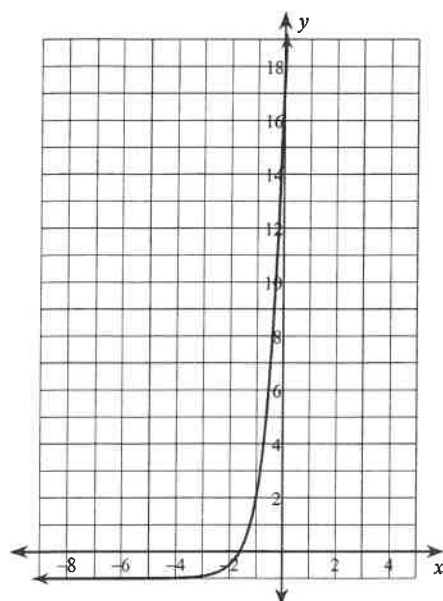


Characteristics of Exponential Functions

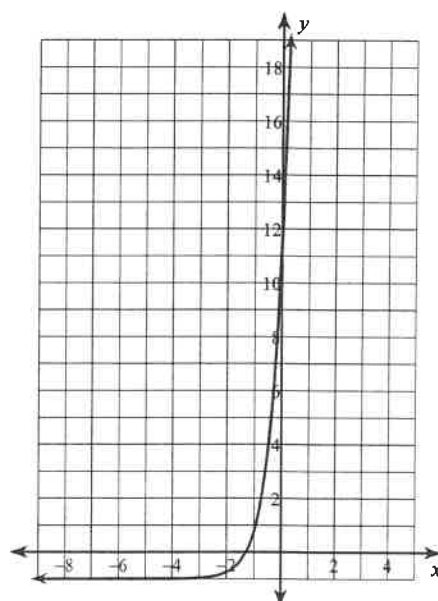
Date _____

Sketch the graph of each function. List the following characteristics: a) y-intercept, b) domain, c) range, d) asymptote, and e) increase/growth or decrease/decay.

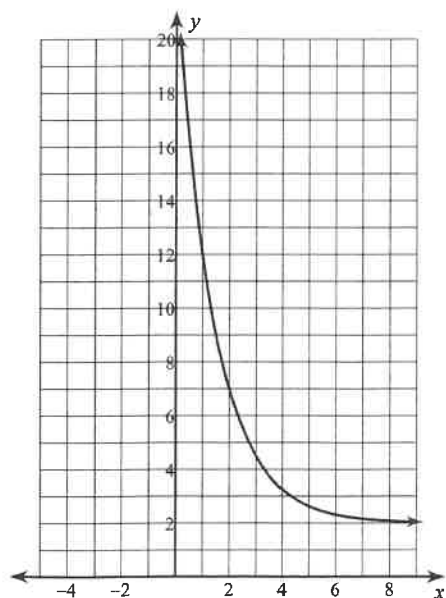
1) $y = \frac{1}{2} \cdot 6^{x+2} - 1$



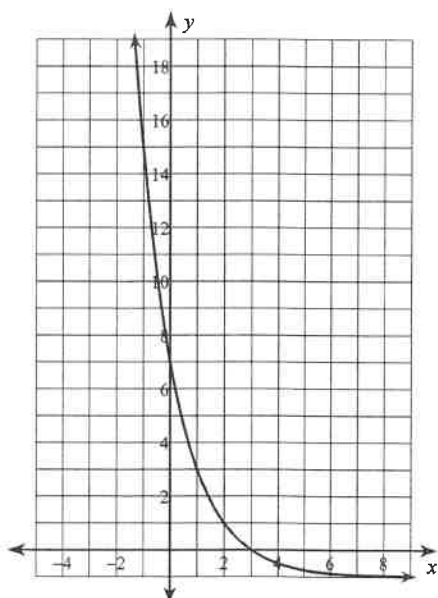
2) $y = \frac{1}{4} \cdot 7^{x+2} - 1$



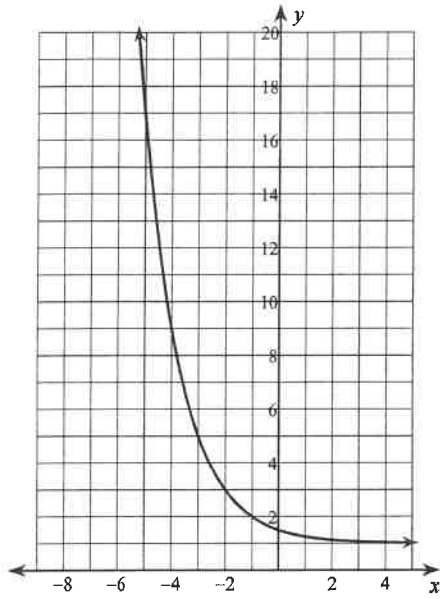
3) $y = 5 \cdot \left(\frac{1}{2}\right)^{x-2} + 2$



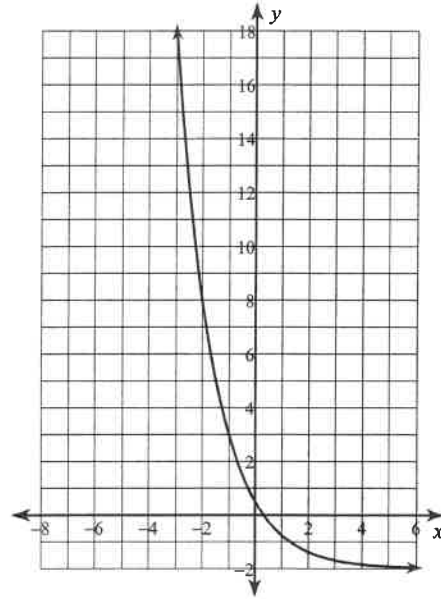
4) $y = 2 \cdot \left(\frac{1}{2}\right)^{x-2} - 1$



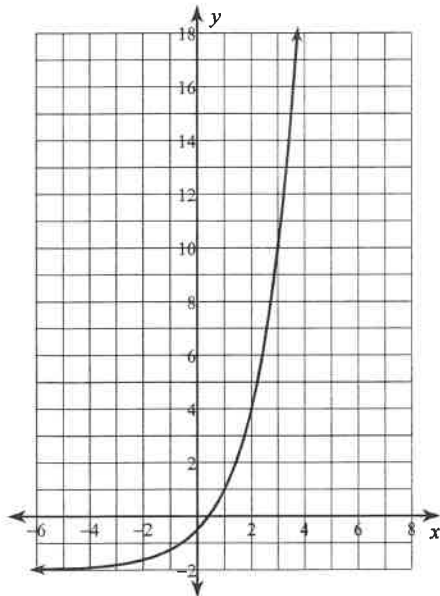
$$5) y = 2 \cdot \left(\frac{1}{2}\right)^{x+2} + 1$$



$$6) y = 5 \cdot \left(\frac{1}{2}\right)^{x+1} - 2$$



$$7) y = 3 \cdot 2^{x-1} - 2$$



$$8) y = \frac{1}{4} \cdot \left(\frac{1}{4}\right)^{x-2} + 1$$

