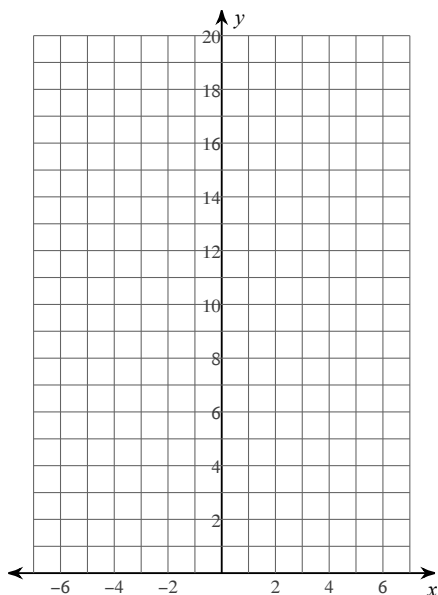


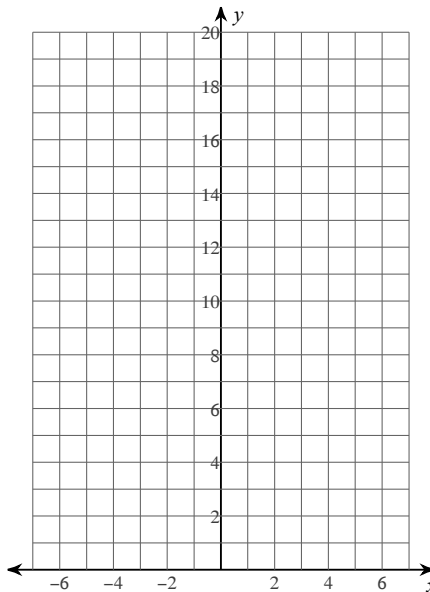
## Review #1 For Chapter 3

Sketch the graph of each function. Label at least 2 points and any asymptotes.

1)  $y = 3^x$

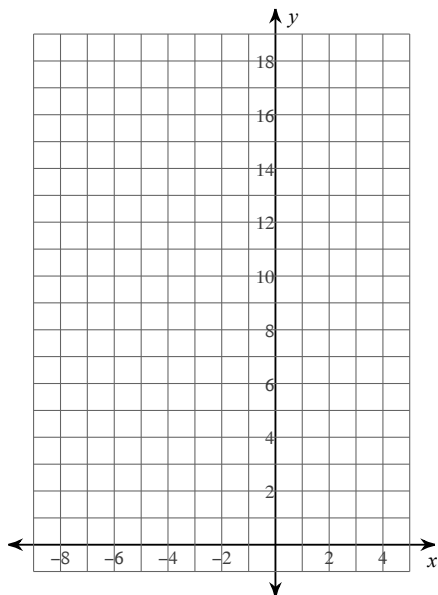


2)  $y = \left(\frac{1}{2}\right)^x$

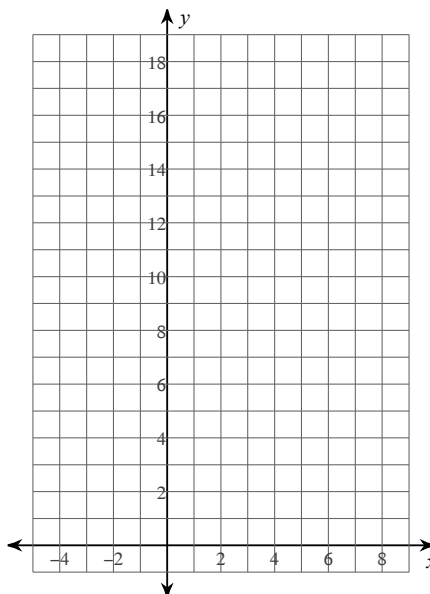


Sketch the graph of each function using its parent function. Label at least 2 points and any asymptotes. Describe the transformations.

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

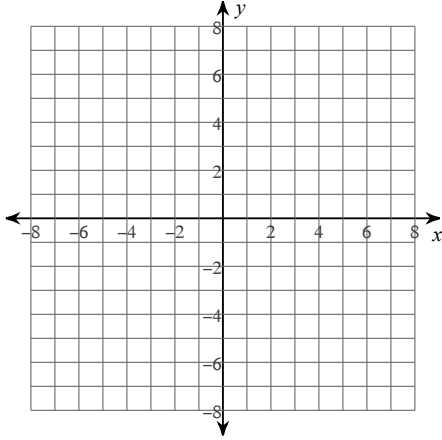


4)  $y = \left(\frac{1}{3}\right)^{x-2} - 1$



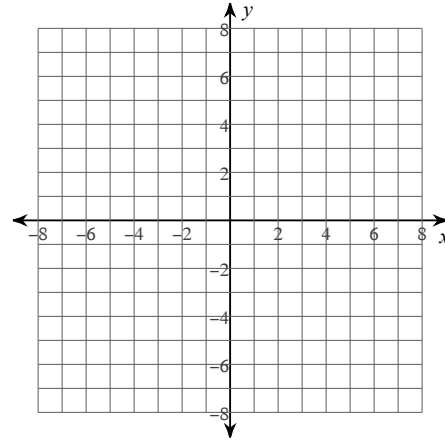
- 5) Sketch the graph of each function. Label at least two points and any asymptotes.

$$y = \log_4 x$$



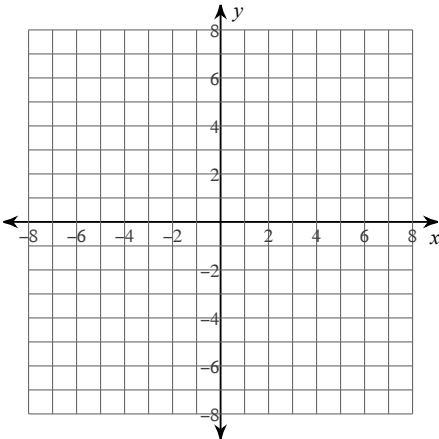
- 6) Sketch the graph of each function. Label at least two points and any asymptotes. Sketch the graph of each function. Label at least two points and any asymptotes.

$$y = \log_2 x$$

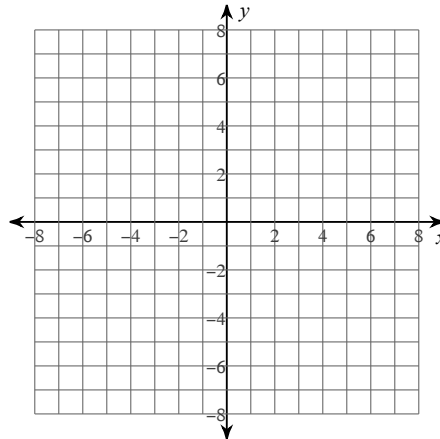


**Sketch the graph of each function. Label at least 2 points and any asymptotes. Describe transformations from its parent function.**

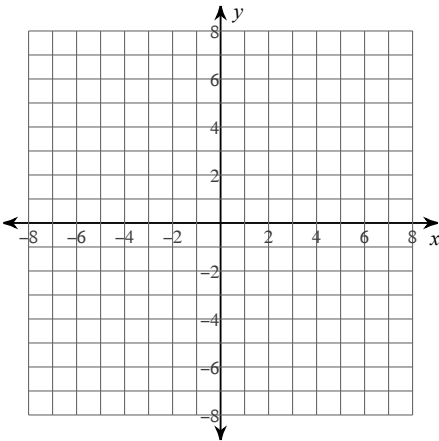
7)  $y = \log_3 (x - 1)$



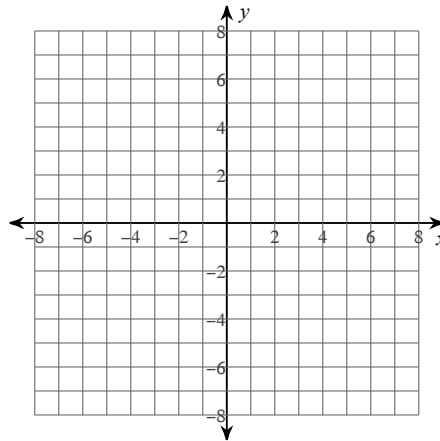
8)  $y = \log_2 (x + 5) + 4$



9)  $y = \log (x + 3)$

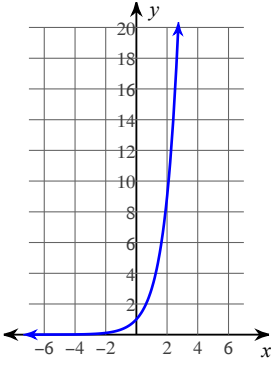


10)  $y = \log (x - 1) - 3$

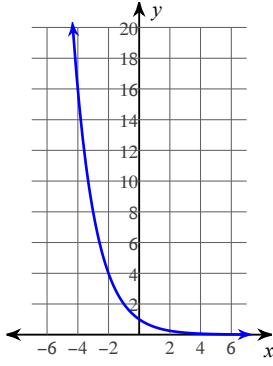


# Answers to Review #1 For Chapter 3 (ID: 1)

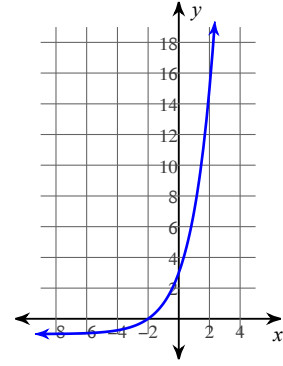
1)



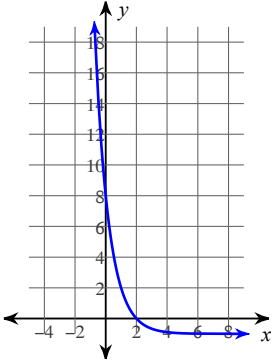
2)



3)



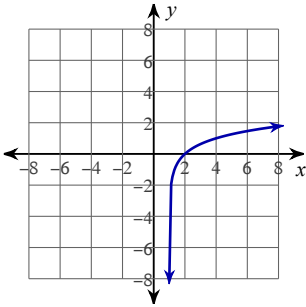
4)



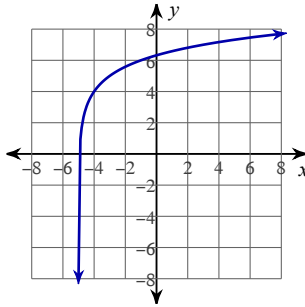
5)  $y = \log_4 x$

6)

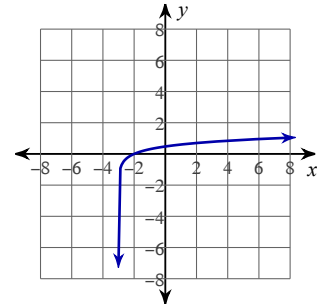
7)



8)



9)



10)

