

Exponential Function Transformations

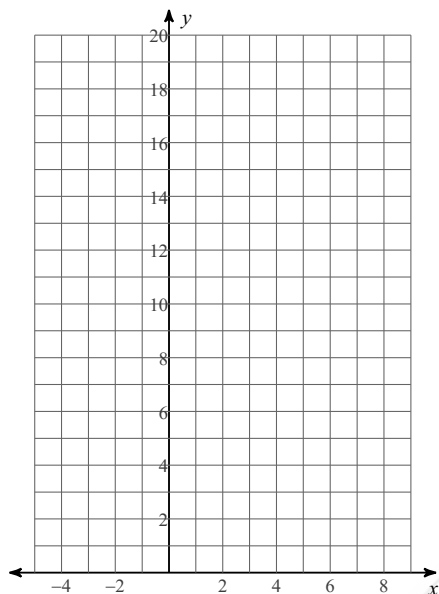
Name _____

© 2017 Kuta Software LLC. All rights reserved.

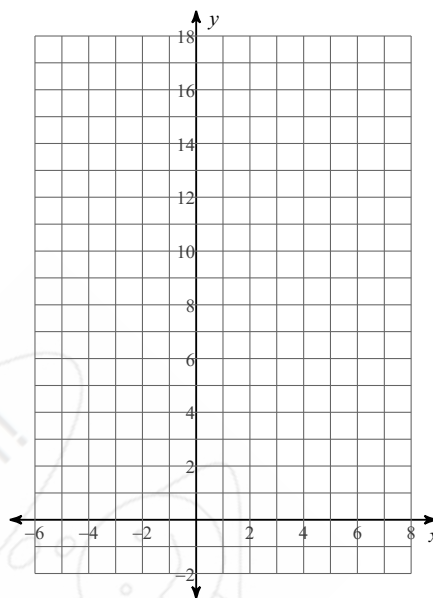
Date _____

Sketch the graph of each function.

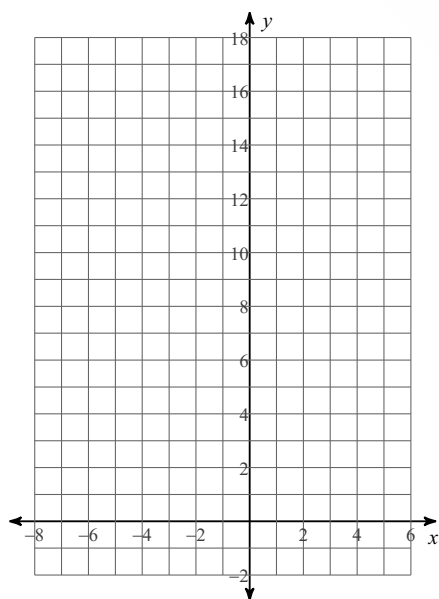
1) $y = \frac{1}{3} \cdot 6^{x-2} + 2$



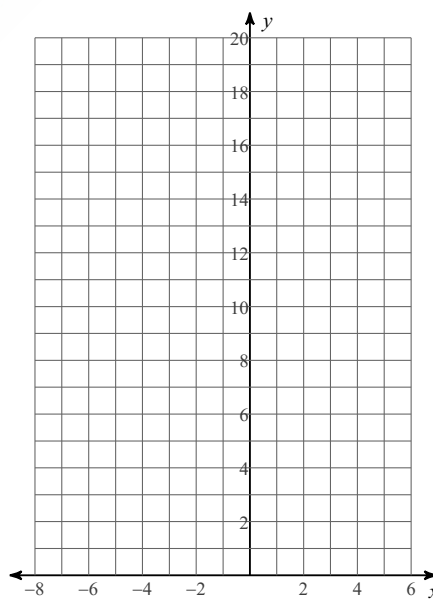
2) $y = \frac{1}{3} \cdot \left(\frac{1}{7}\right)^{x-1} - 2$



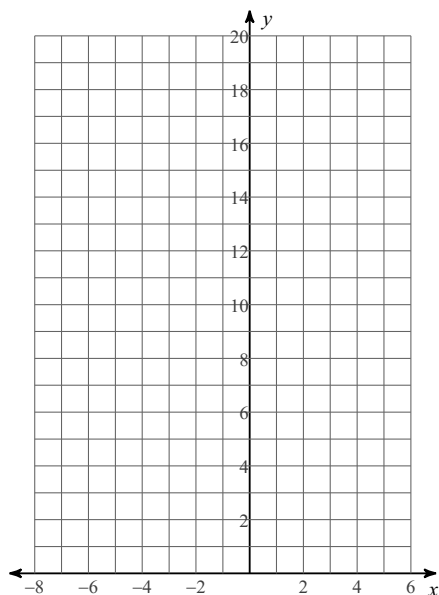
3) $y = 4 \cdot \left(\frac{1}{2}\right)^{x+1} - 2$



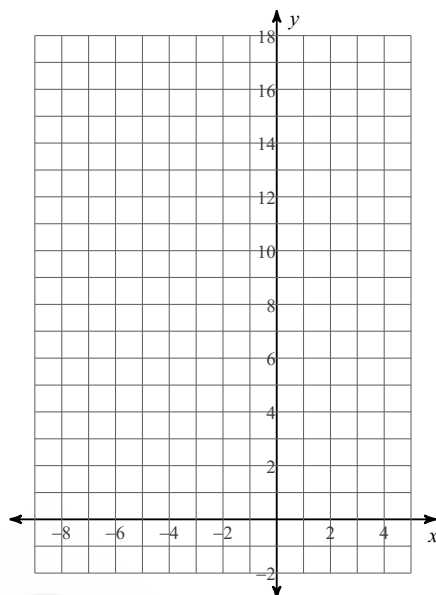
4) $y = 4 \cdot \left(\frac{1}{2}\right)^{x+1} + 1$



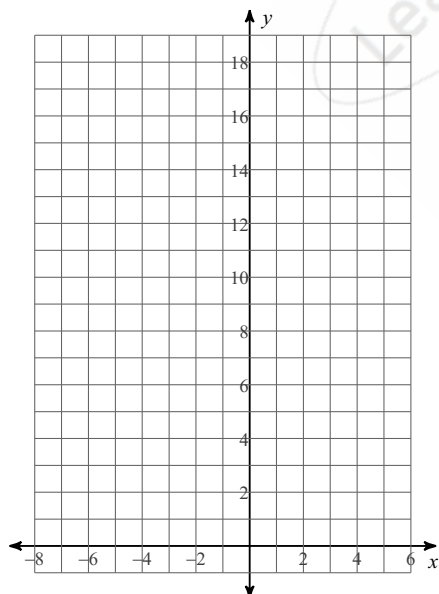
5) $y = 3 \cdot 2^{x+1} + 2$



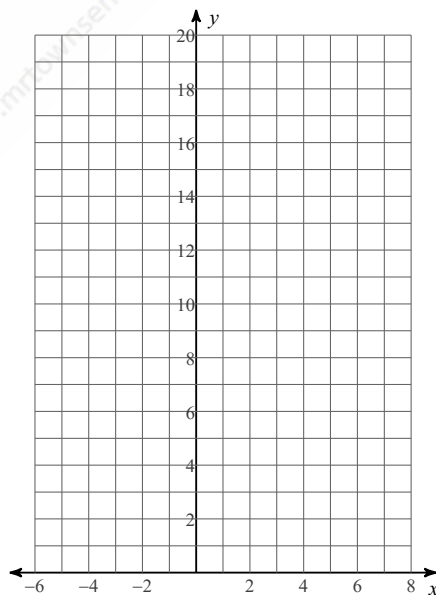
6) $y = 5 \cdot 2^{x+2} - 2$



7) $y = 5 \cdot 2^{x+1} - 1$

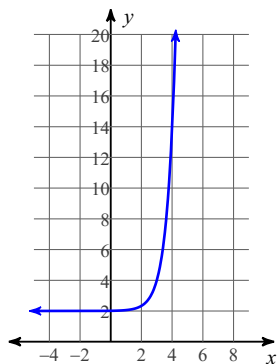


8) $y = \frac{1}{2} \cdot \left(\frac{1}{4}\right)^{x-1} + 1$

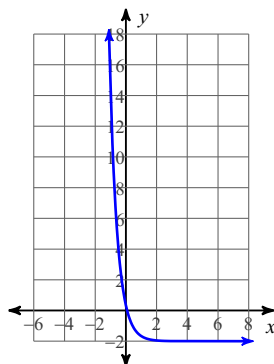


Answers to Exponential Function Transformations

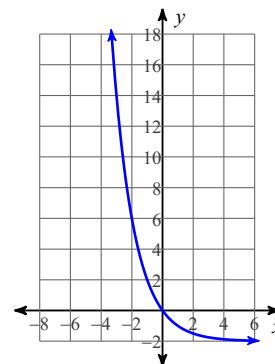
1)



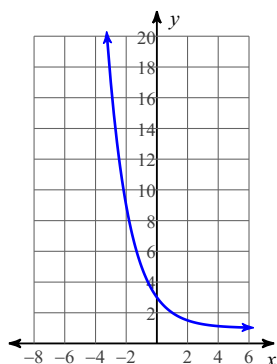
2)



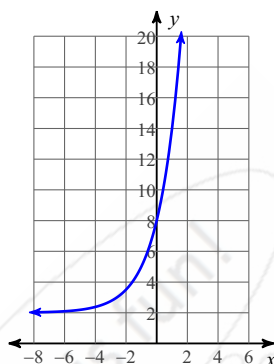
3)



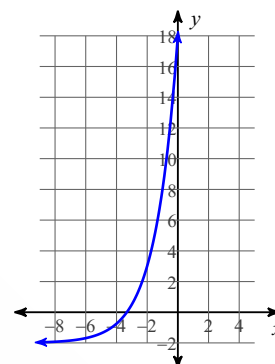
4)



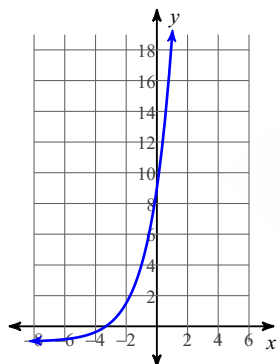
5)



6)



7)



8)

