

Exponential Function Transformations

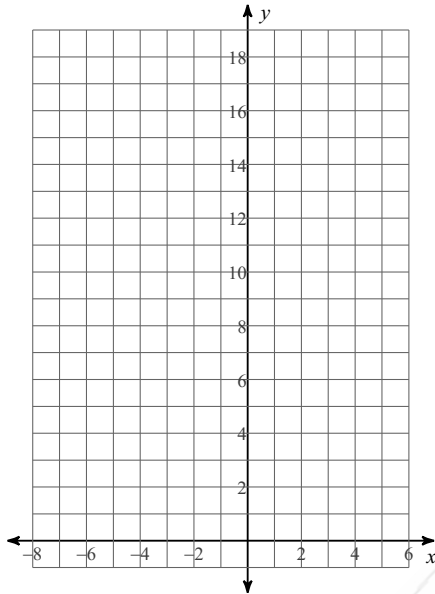
© 2017 Kuta Software LLC. All rights reserved.

Name _____

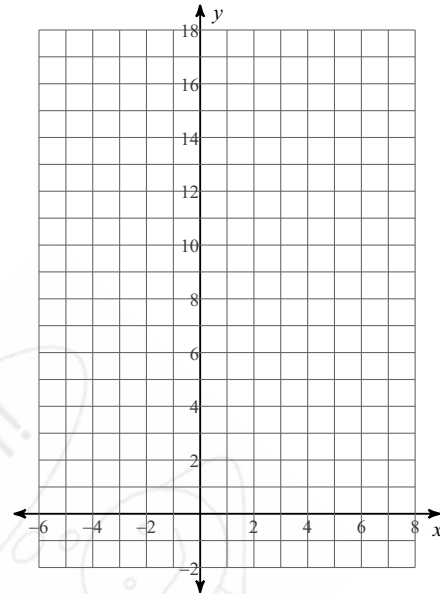
Date _____

Sketch the graph of each function.

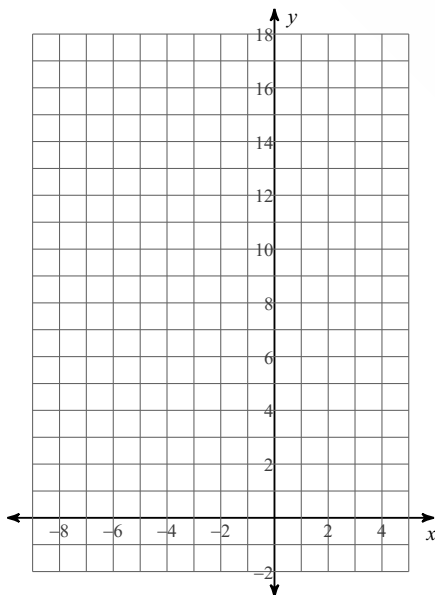
1) $y = 2 \cdot \left(\frac{1}{3}\right)^{x+1} - 1$



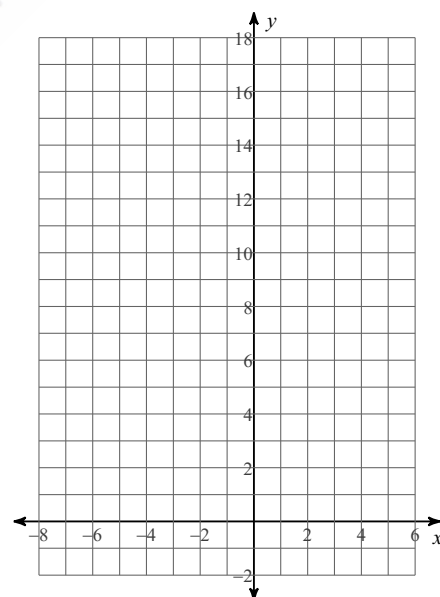
2) $y = 2 \cdot \left(\frac{1}{2}\right)^{x-1} - 2$



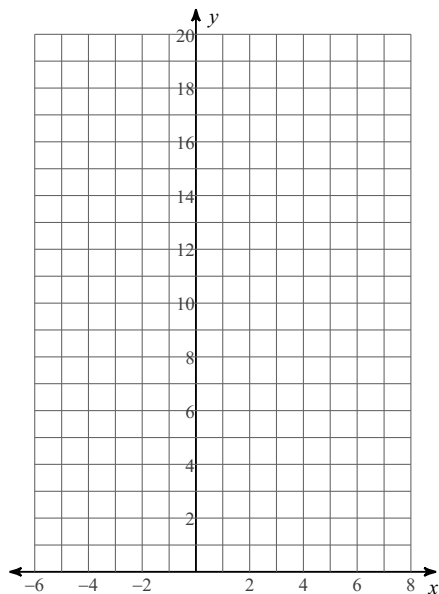
3) $y = 4 \cdot 2^{x+2} - 2$



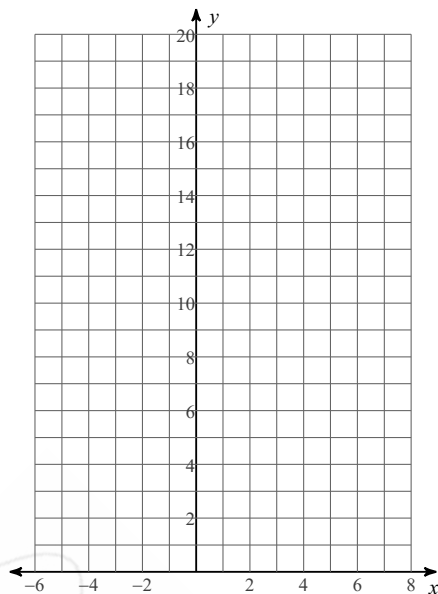
4) $y = 2 \cdot \left(\frac{1}{2}\right)^{x+1} - 2$



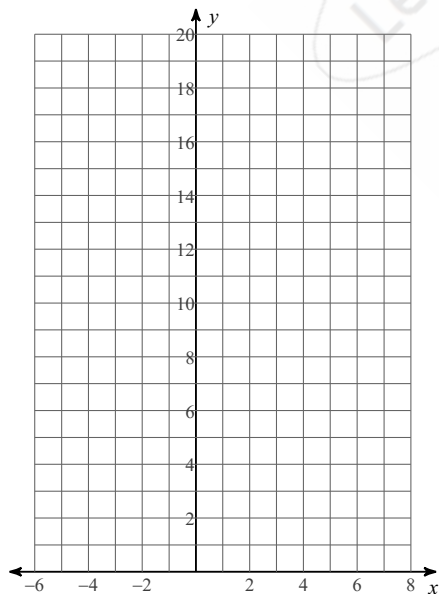
$$5) y = \frac{1}{4} \cdot 8^{x-1} + 2$$



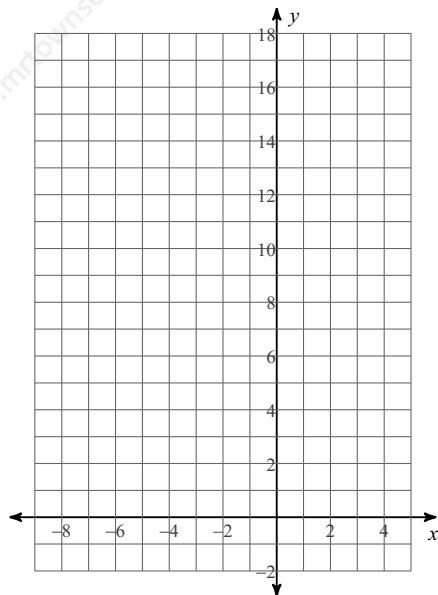
$$6) y = \frac{1}{4} \cdot 3^{x-1} + 2$$



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

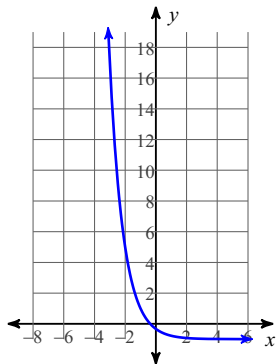


$$8) y = \frac{1}{4} \cdot 4^{x+2} - 2$$

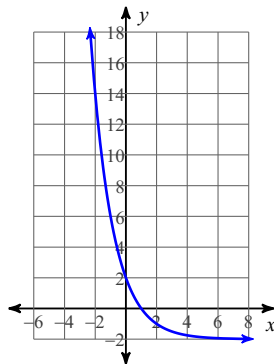


Answers to Exponential Function Transformations

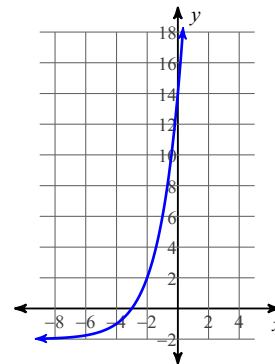
1)



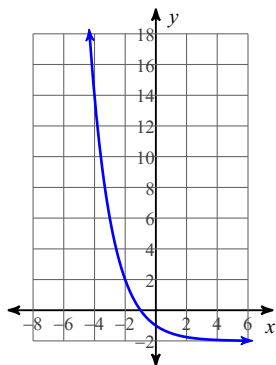
2)



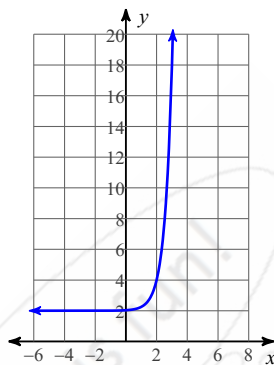
3)



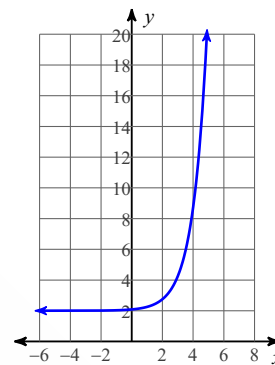
4)



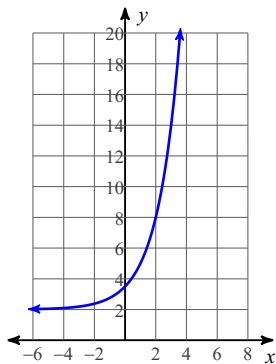
5)



6)



7)



8)

