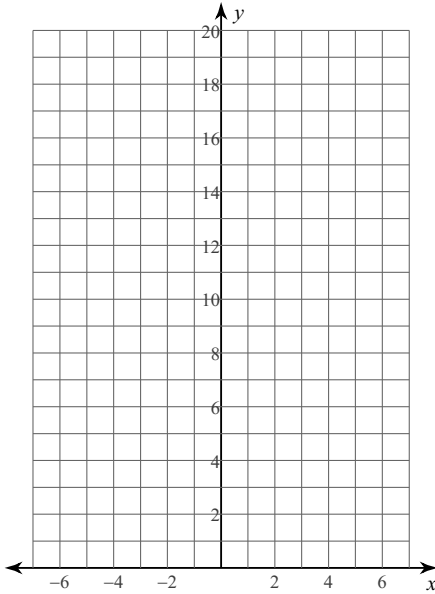


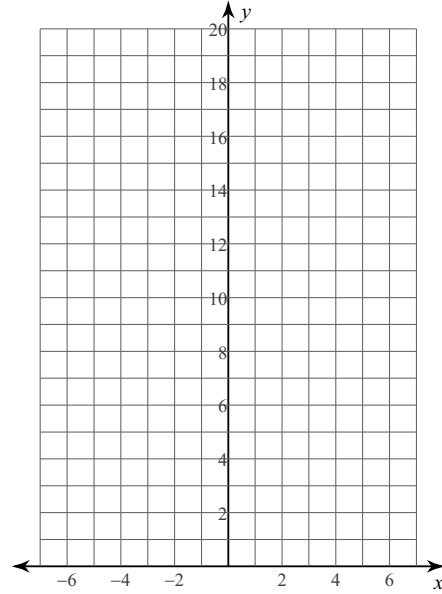
Review: Graphing Exponential Functions

Sketch the graph of each function.

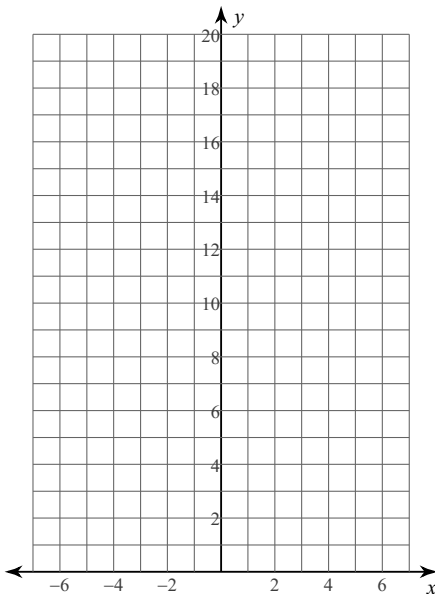
1) $f(x) = \left(\frac{1}{2}\right)^x$



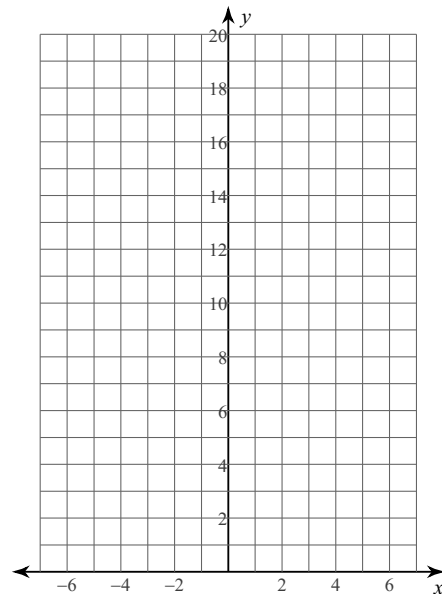
2) $f(x) = 4^x$



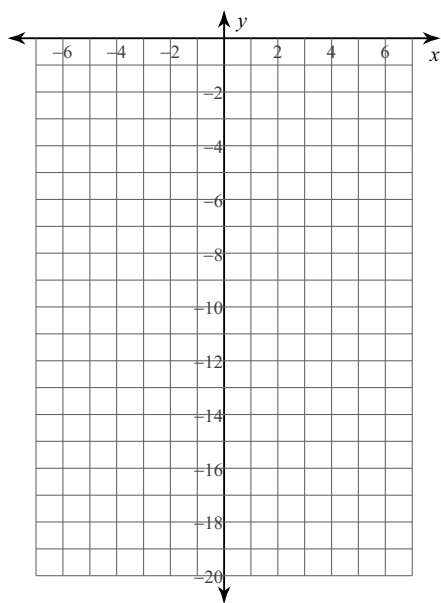
3) $f(x) = \frac{1}{2} \cdot \left(\frac{1}{3}\right)^x$



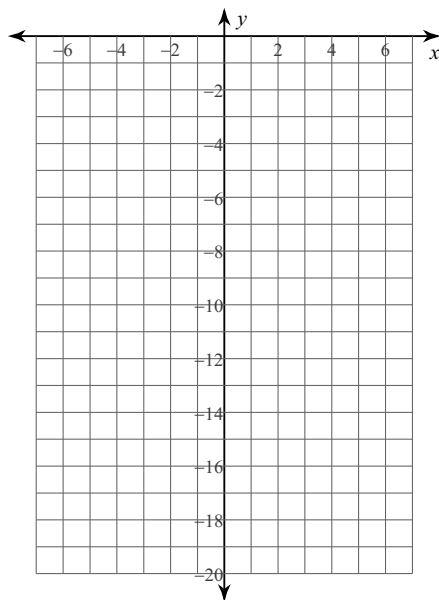
4) $f(x) = 5 \cdot \left(\frac{1}{2}\right)^x$



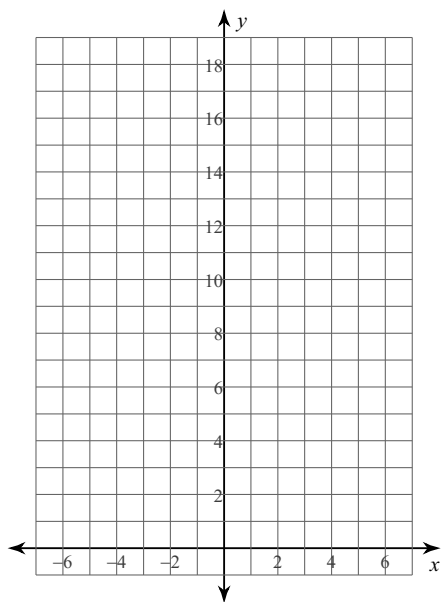
$$5) f(x) = -\frac{1}{2} \cdot \left(\frac{1}{2}\right)^x$$



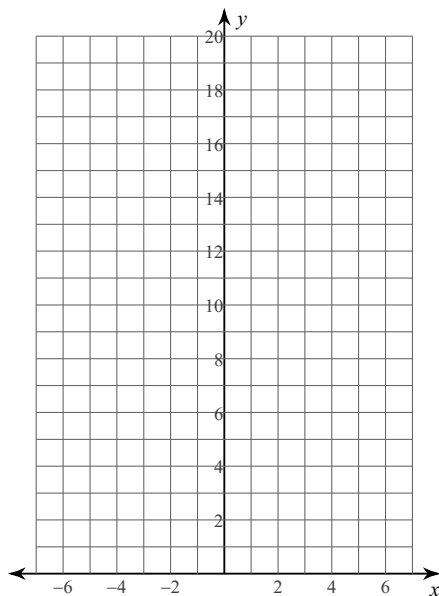
$$6) f(x) = -\frac{1}{4} \cdot 2^x$$



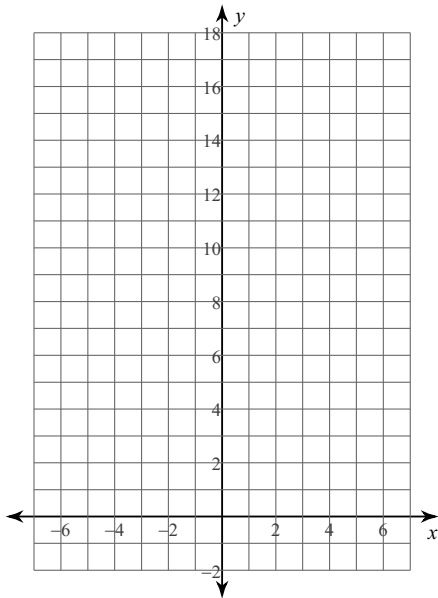
$$7) f(x) = \left(\frac{1}{3}\right)^x - 1$$



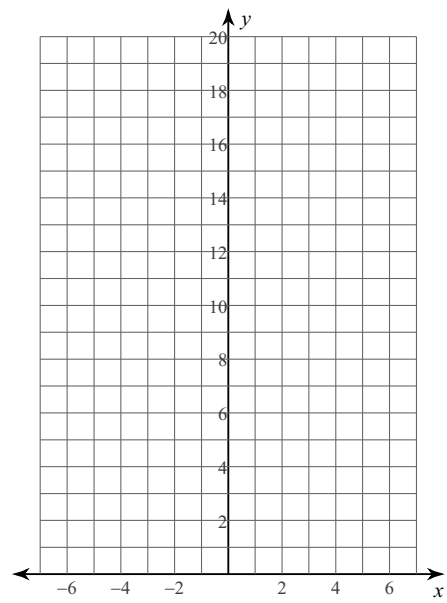
$$8) f(x) = 4^x + 2$$



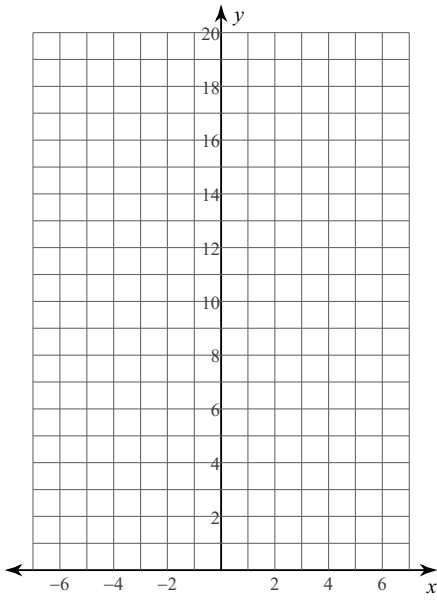
9) $f(x) = 3^x - 2$



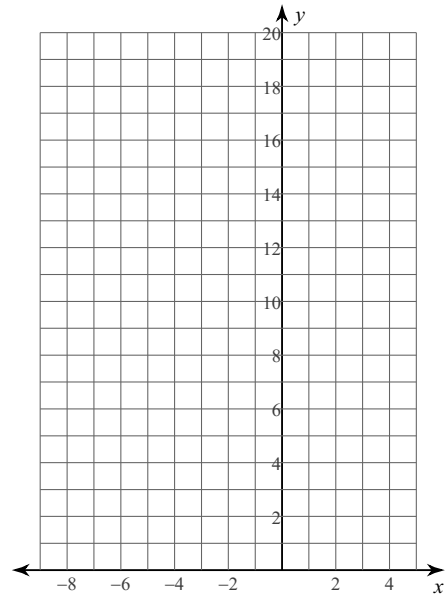
10) $f(x) = \left(\frac{1}{2}\right)^x + 1$



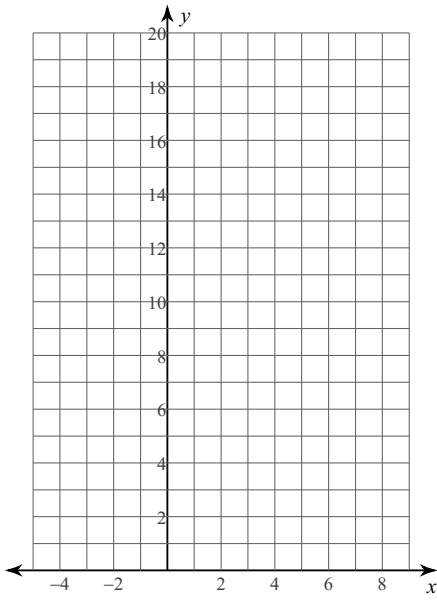
$$11) f(x) = \frac{1}{3} \cdot \left(\frac{1}{2}\right)^x + 1$$



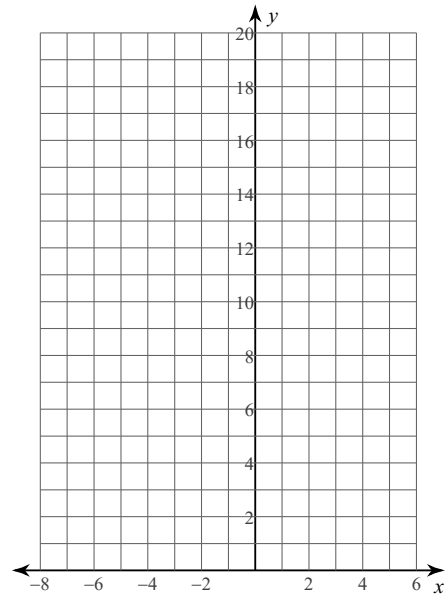
$$12) f(x) = \left(\frac{1}{4}\right)^{x+2}$$



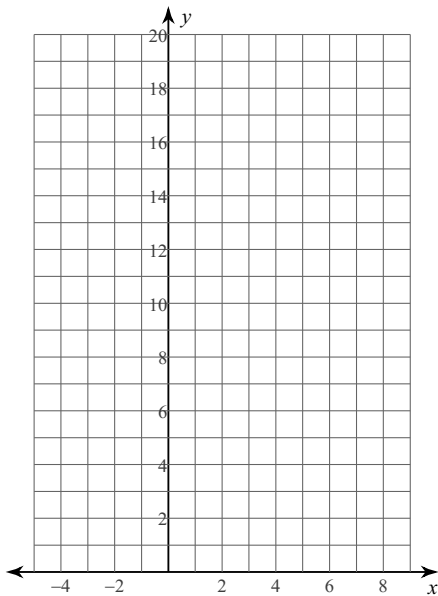
$$13) f(x) = 3^{x-2}$$



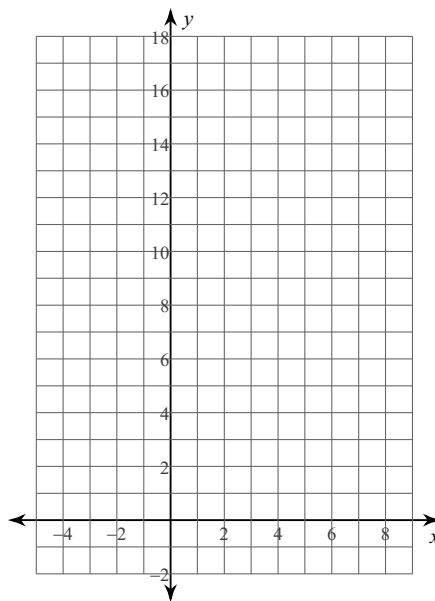
$$14) f(x) = 5 \cdot 2^{x+1}$$



15) $f(x) = \frac{1}{4} \cdot 2^{x-2} + 1$



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



Open-ended

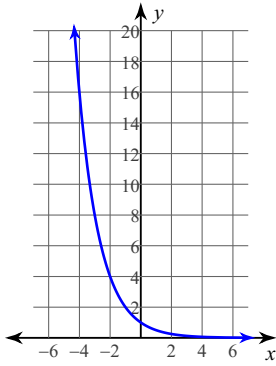
17) In the equation, $y = ab^x$, what does a represent? What does b represent?

18) How can you determine from the equation $y = ab^x$ if a function represents exponential growth or exponential decay?

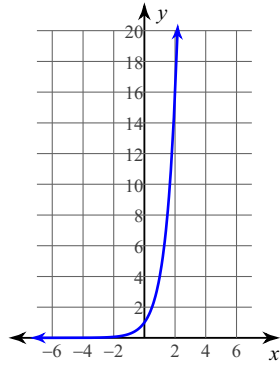
19) What is the mathematical definition of e ?

Answers to Review: Graphing Exponential Functions

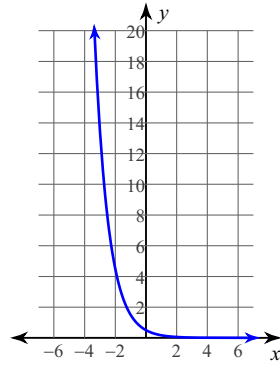
1)



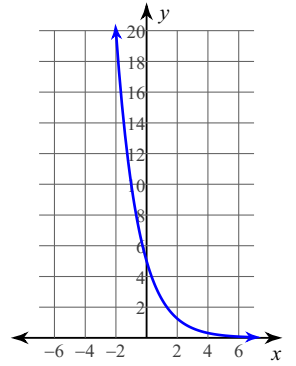
2)



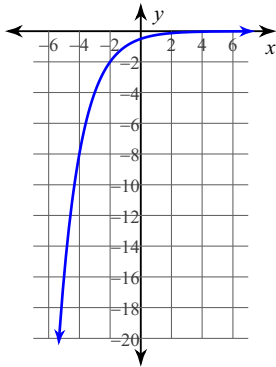
3)



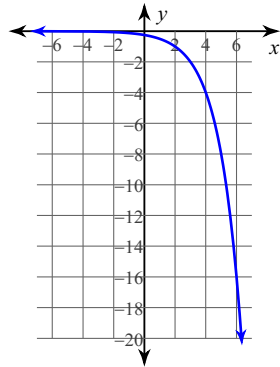
4)



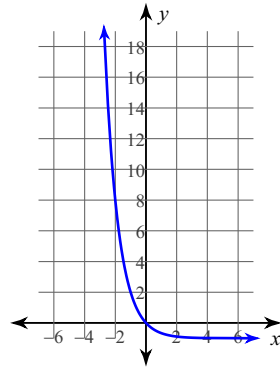
5)



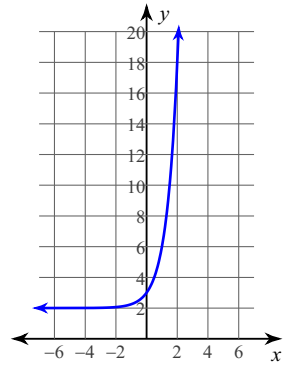
6)



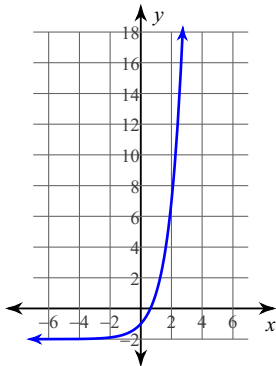
7)



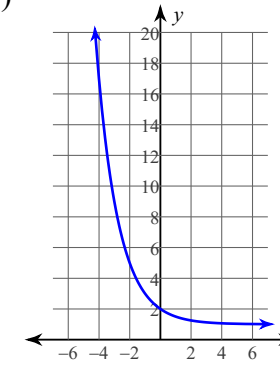
8)



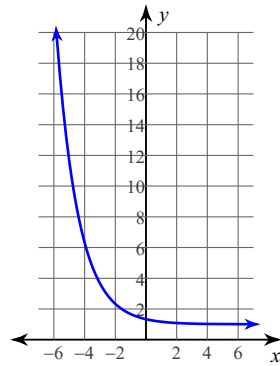
9)



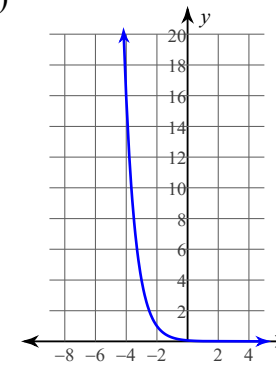
10)



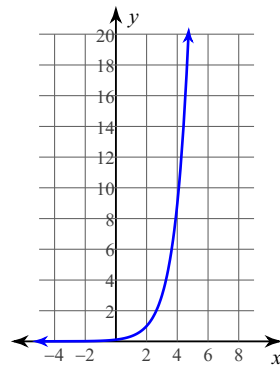
11)



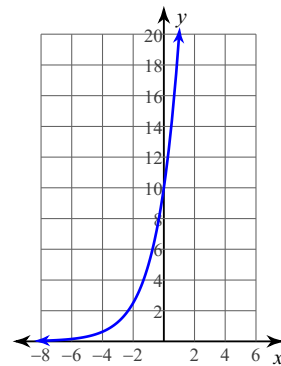
12)



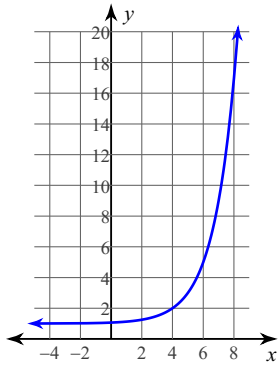
13)



14)

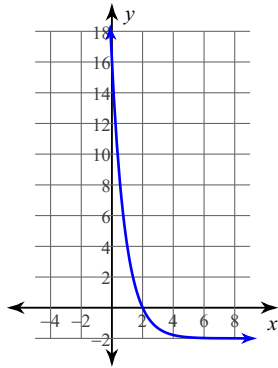


15)



18)

16)



17)

19)