Exponential Function a function that has a common multiple or divisor between terms, $f(x) = a(b)^x$; doubling or halving

Exponential Function – an equation of the form $f(x) = a \cdot b^x + k$ where $a \neq 0$, $b > 0$, $b \neq 1$ and x is any real number , is called an exponential function with base b.