Exponential Growth and Decay Functions

Exponential function: $f(x) = ab^x$ where $a \neq 0$

If $a > 0$,
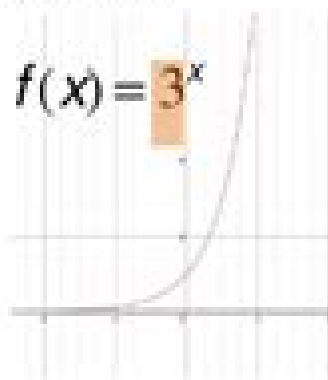Domain: $(-\infty, \infty)$; Range: $(0, \infty)$

$b > 0$ (real number), $b \neq 1$

If $a > 0$ and $b > 1$, then $y = ab^x$ is an exponential growth function, and b is the growth factor.

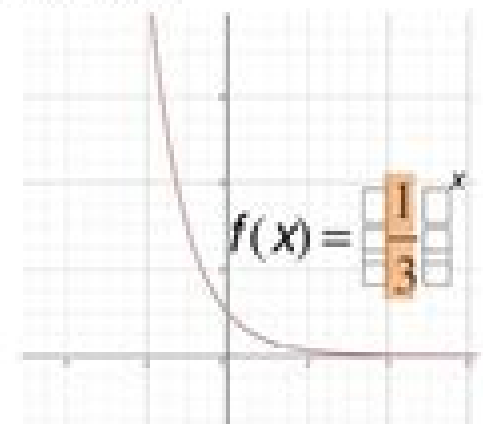If $a > 0$ and $0 < b < 1$, then $y = ab^x$ is an exponential decay function, and b is the decay factor.

Exponential Growth:

$f(x) = 3^x$

$a = 1 > 0$

$b = 3 > 1 \rightarrow$ exponential growth

b is the growth factor

Exponential Decay:

$f(x) = \dfrac{1}{3}^x$

$a = 1 > 0$

$b = \dfrac{1}{3} < 1 \rightarrow$ exponential decay

b is the decay factor

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AW Rasmussen

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