

7-1 Exponential Functions, Growth, and Decay

Base Exponent

$$f(x) = b^x, \text{ where } b > 0, b \neq 1$$

The graph of the parent function $f(x) = 2^x$ is shown. The domain is all real numbers and the range is $\{y \mid y > 0\}$.

x	-2	-1	0	1	2	3
$f(x) = 2^x$	$\frac{1}{4}$	$\frac{1}{2}$	1	2	4	8

