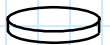


Exponential Decay



<https://thumbs.dreamstime.com/x/stack-pennies-17187618.jpg>



What if $b < 1$?

Exponential Growth Function: $f(x) = a \cdot b^x$ $a \neq 0, b > 1$

Exponential Decay Function: $f(x) =$

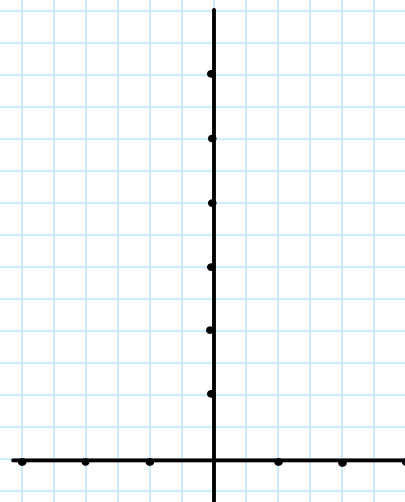
If $a = 0...$

If $b = 0...$

If $b < 0...$

Graphing Example: $f(x) = 4 * \frac{1}{2}^x$

x	$f(x)$
-3	
-2	
-1	
0	
1	
2	
3	



$$4 * 3^2$$

$$\frac{1}{3} * 5^3$$

$$\frac{2}{5} * \left(\frac{5}{3}\right)^4$$

$$330 * 1.027^{3.5}$$

$$19500 * 0.94^{6.2}$$