

Example 1

What is the graph of $y = 3 \cdot 2^x$?

x	y	
-2	$\frac{3}{4}$	$y = 3 \cdot 2^{-2} = 3 \cdot \frac{1}{2^2} = 3 \cdot \frac{1}{4} = \frac{3}{4}$
-1	$\frac{3}{2}$	$y = 3 \cdot 2^{-1} = 3 \cdot \frac{1}{2} = 3 \cdot \frac{1}{2} = \frac{3}{2} = 1\frac{1}{2}$
0	3	$y = 3 \cdot 2^0 = 3 \cdot 1 = 3$
1	6	$y = 3 \cdot 2^1 = 3 \cdot 2 = 6$
2	12	$y = 3 \cdot 2^2 = 3 \cdot 4 = 12$