

**Problem 3 – The Multiple Representations of Exponentials**

2. Write an exponential equation of the form  $y = ab^x$  for each. Explain your reasoning.  
Hint: use the common ratio to find  $a$ .

a.

$x$	$y$
0	1
1	4
2	16
3	64

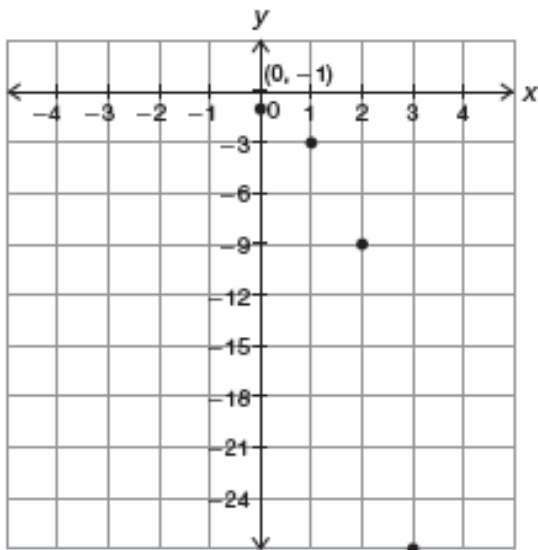
$y =$  \_\_\_\_\_

How did you figure out  $a$  and  $b$ ?

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b.



$y =$  \_\_\_\_\_

How did you figure out  $a$  and  $b$ ?

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3. Given a function of the form  $f(x) = ab^x$ .

a. What does the  $a$ -value tell you?

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b. What does the  $b$ -value tell you?

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