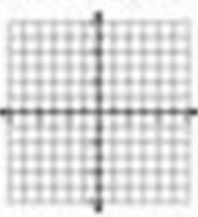



I'm not robot!



1. Graph the function  $y = x$ .



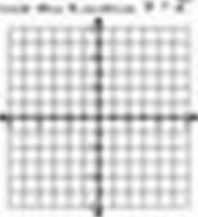
2. Graph the functions  $y = x + 2$  and  $y = x - 4$ .



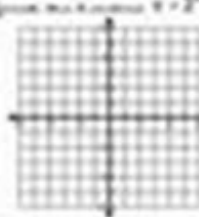
3. What transformation do you observe when a number is added or subtracted to the original linear function?

---

4. Graph the function  $y = 2^x$ .



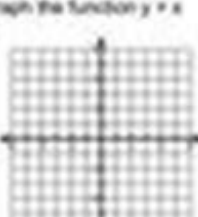
5. Graph the function  $y = 2^{x-4}$ .




6. What transformation do you observe when a number is added or subtracted to the original exponential function? Do the same rules apply as with the linear function?

---

7. Graph the function  $y = x$ .



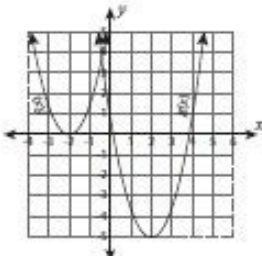
8. Graph the functions  $y = 2x$  and  $y = \frac{1}{2}x$ .

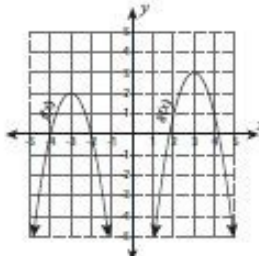


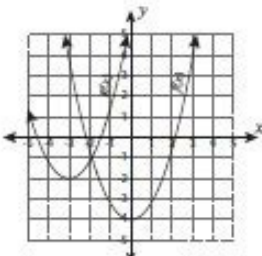
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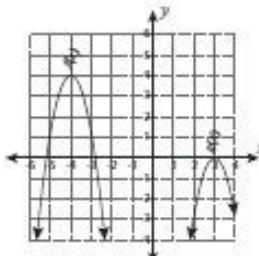
Identifying Translation - Graph1251

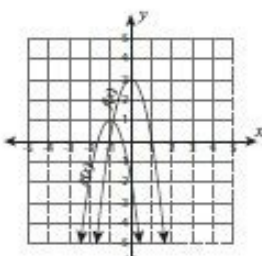
If  $g(x)$  is a translated function of  $f(x)$ , then identify the translation in each graph.

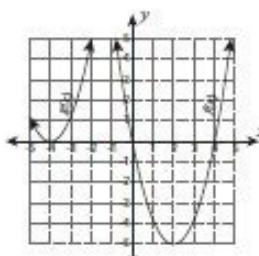
1)

2)

3)

4)

5)

6)

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Problems

Based on the difference in y-values, identify the graph as linear, quadratic, exponential, or neither.

1.

x	-3	-2	-1	0	1	2	3
y	14	10	6	2	-2	-6	-10
2.

x	-3	-2	-1	0	1	2	3
y	$\frac{1}{32}$	$\frac{1}{8}$	$\frac{1}{2}$	1	2	4	8
3.

x	-3	-2	-1	0	1	2	3
y	21	12	5	0	-3	-4	-3
4.

x	-3	-2	-1	0	1	2	3
y	-16	-13	-10	-7	-4	-1	2
5.

x	-3	-2	-1	0	1	2	3
y	-14	-9	-4	1	6	11	16
6.

x	-3	-2	-1	0	1	2	3
y	-18	-6	-2	0	2	6	18
7.

x	-3	-2	-1	0	1	2	3
y	4	8	16	32	64	128	256
8.

x	-3	-2	-1	0	1	2	3
y	$\frac{1}{27}$	$\frac{1}{9}$	$\frac{1}{3}$	1	3	9	27
9.

x	-3	-2	-1	0	1	2	3
y	30	20	12	6	2	0	0
10.

x	-3	-2	-1	0	1	2	3
y	11	9	7	5	3	1	-1
11.

x	-3	-2	-1	0	1	2	3
y	$\frac{1}{81}$	$\frac{1}{9}$	$\frac{1}{3}$	1	3	9	27
12.

x	-3	-2	-1	0	1	2	3
y	-27	-9	-3	0	3	9	27
13.

x	-3	-2	-1	0	1	2	3
y	0	5	8	9	8	5	0
14.

x	-3	-2	-1	0	1	2	3
y	3	0	-1	0	3	8	15
15.

x	-3	-2	-1	0	1	2	3
y	1	0	-1	-2	-1	0	1
16.

x	-3	-2	-1	0	1	2	3
y	$\frac{1}{36}$	$\frac{1}{9}$	$\frac{1}{3}$	1	3	9	18

## Chapter 7: Exponential and Logarithmic Functions

### 7.1 Exploring Exponential Models

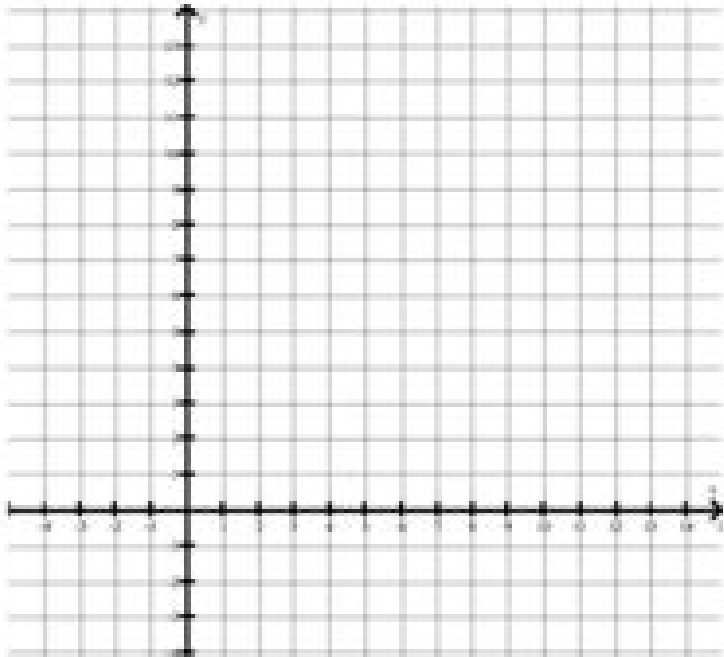
An **exponential function** is a function looks like:

$$y = ab^x$$

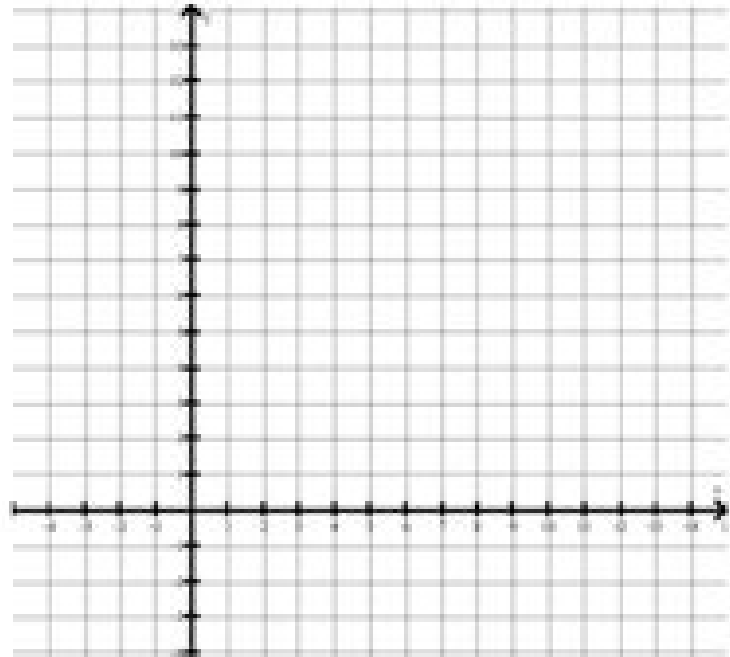
$a \neq 0, \ b > 0, \ b \neq 1$

**Example 1:** Graph the following exponential functions

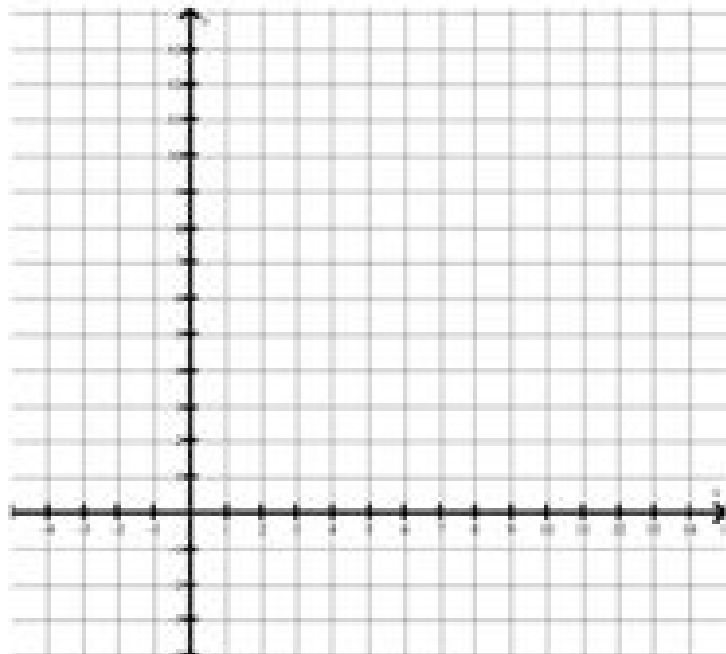
a)  $y = 2^x$



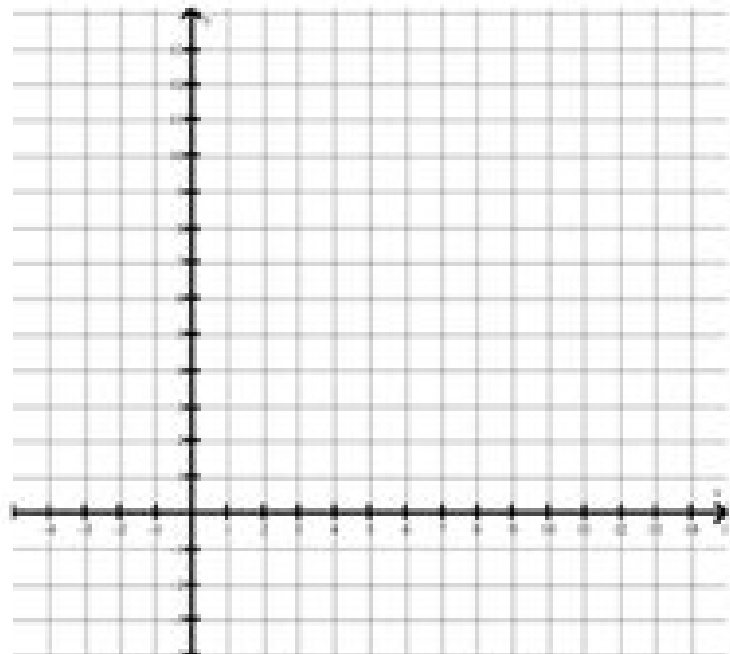
b)  $y = \left(\frac{1}{2}\right)^x$



c)  $y = 2(3)^x$



d)  $y = 3\left(\frac{1}{4}\right)^x$

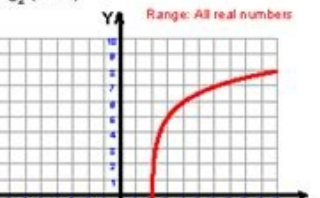




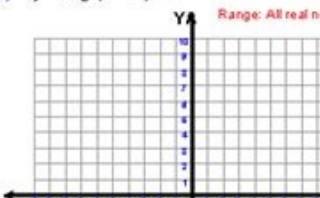
### Graphing Logarithms

Give the domain and range of each function, then graph.

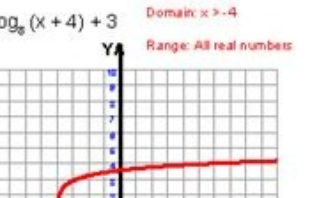
1)  $y = \log_2(x-2) + 5$  Domain:  $x > 2$   
Range: All real numbers



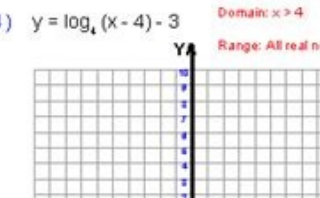
2)  $y = \log(x+3) - 2$  Domain:  $x > -3$   
Range: All real numbers





3)  $y = \log_3(x+4) + 3$  Domain:  $x > -4$   
Range: All real numbers



4)  $y = \log_4(x-4) - 3$  Domain:  $x > 4$   
Range: All real numbers



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