

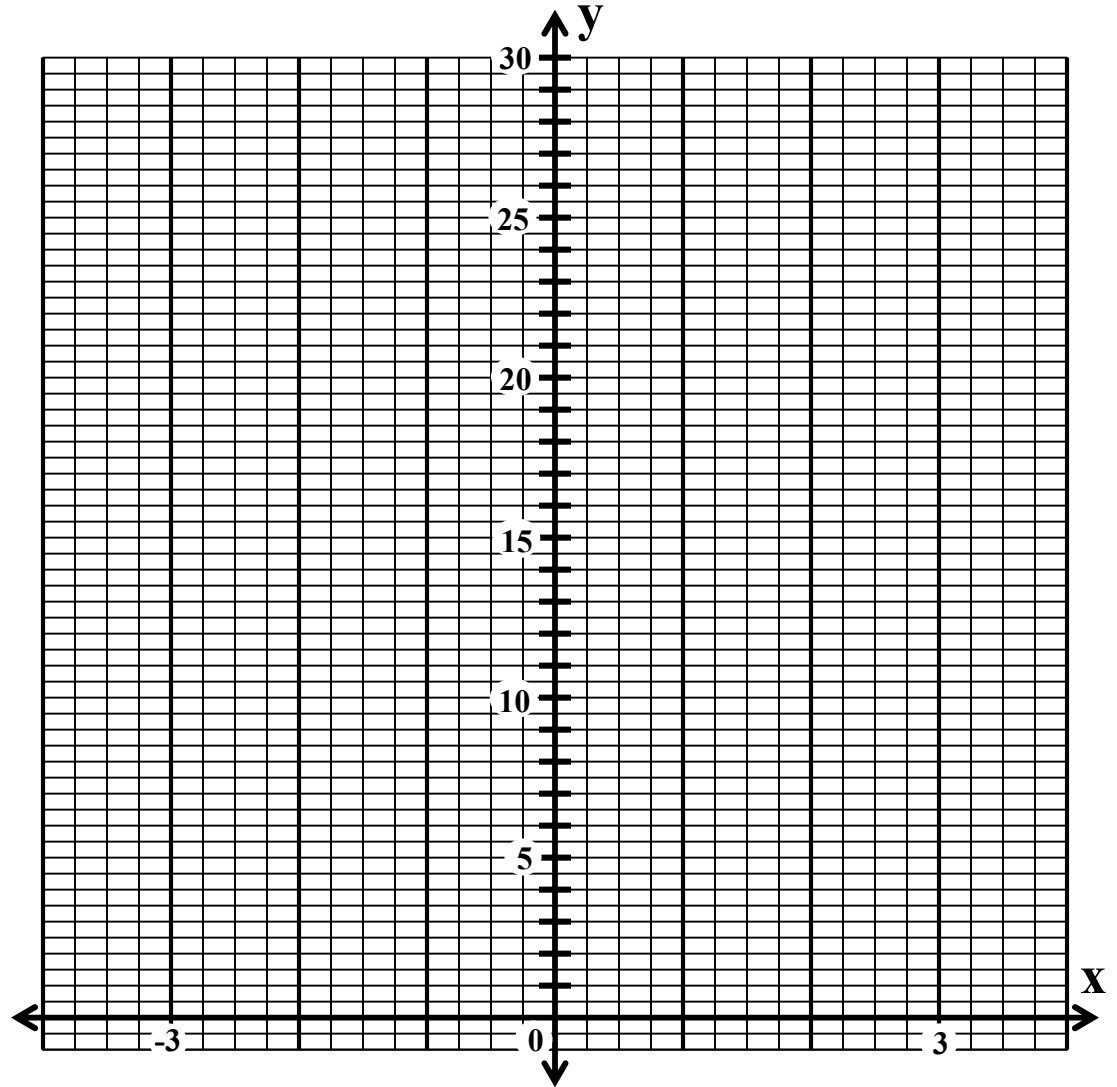
**Algebra II**  
**Lesson #3 Unit 10**  
**Class Worksheet #3**  
**For Worksheet #4**

# Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

1.  $y = 2^x$

x	y
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	

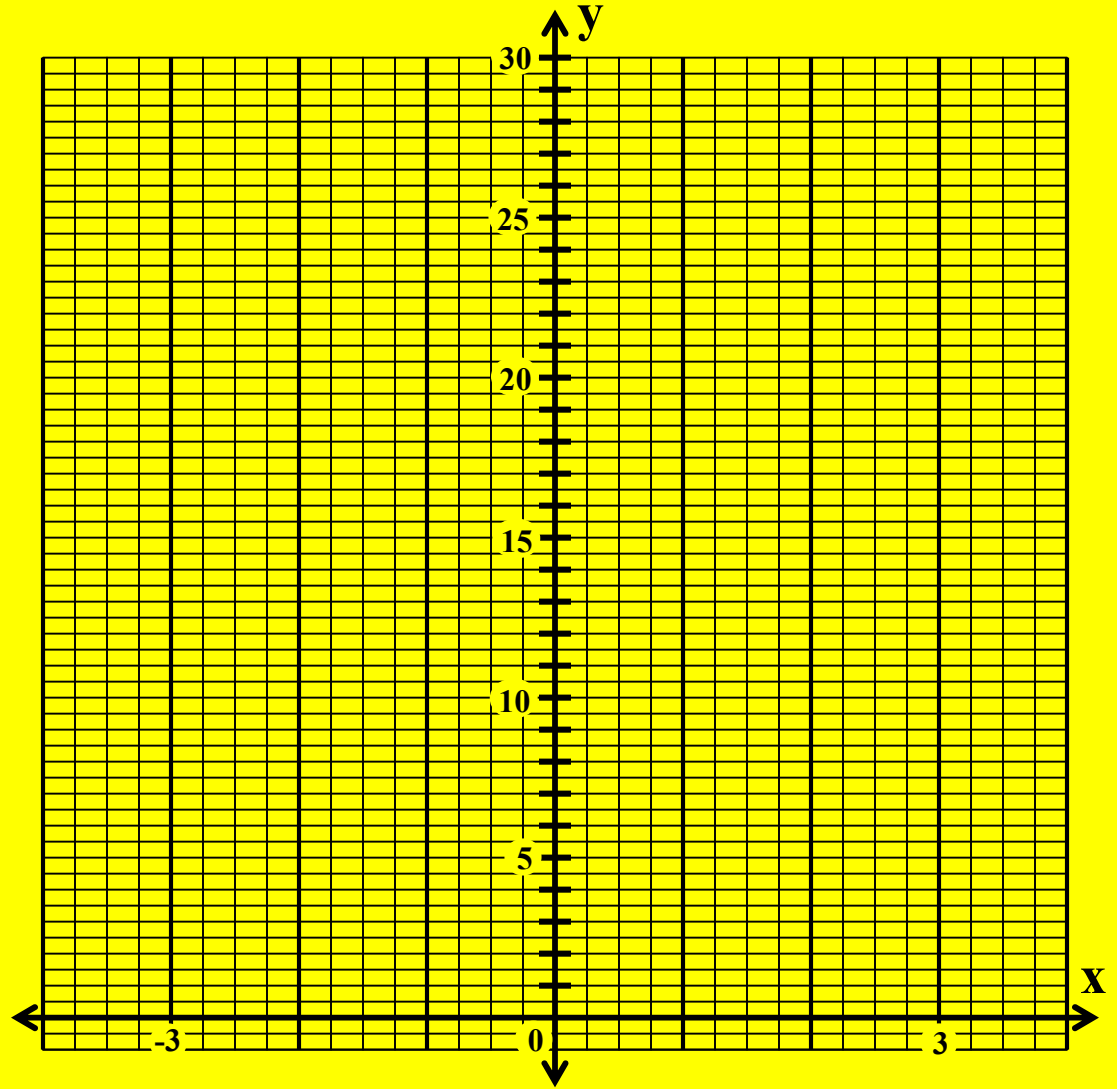


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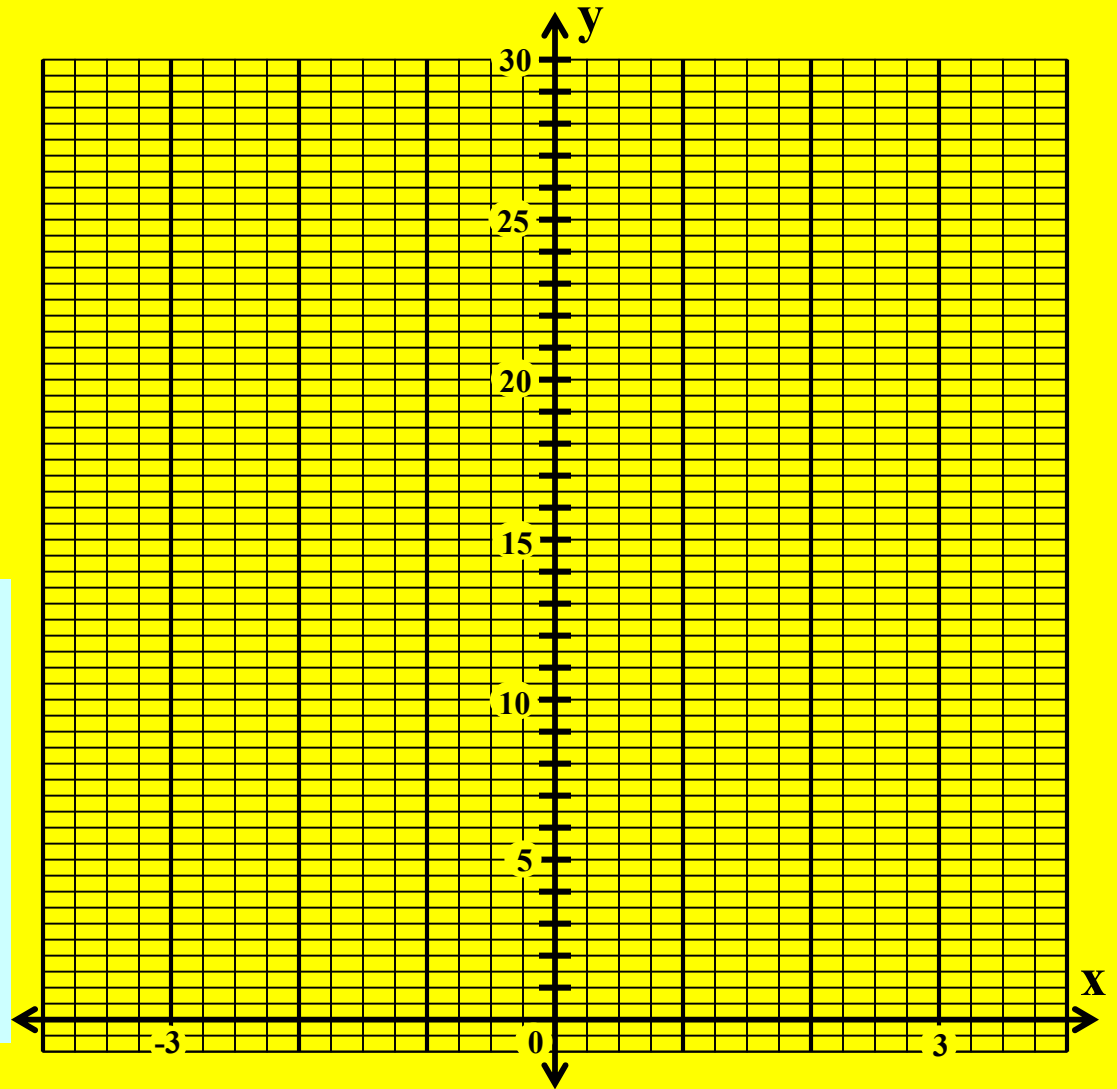
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This is an example of an exponential function.



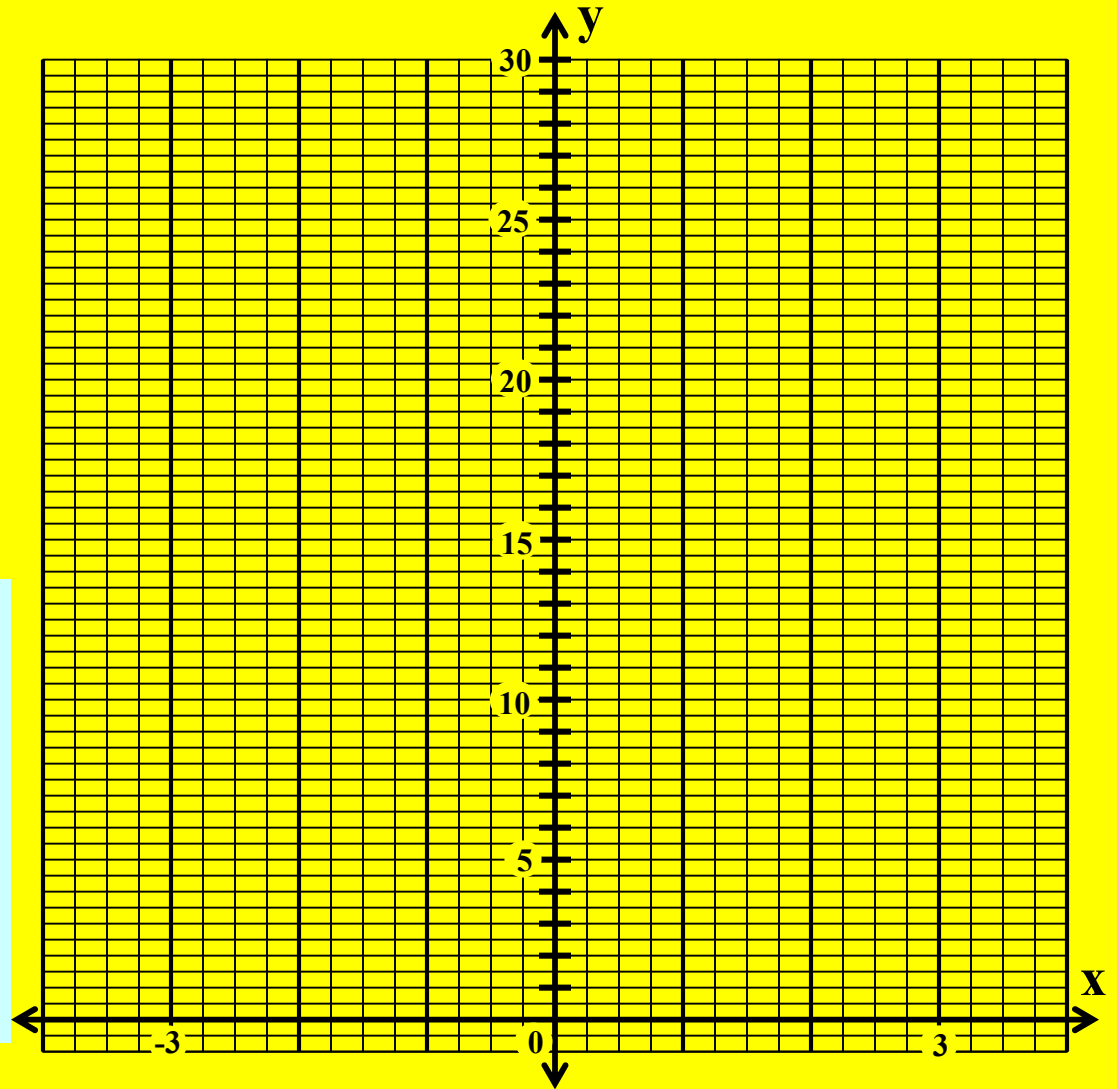
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This is an example of an **exponential function**.  
We will fill out the table,



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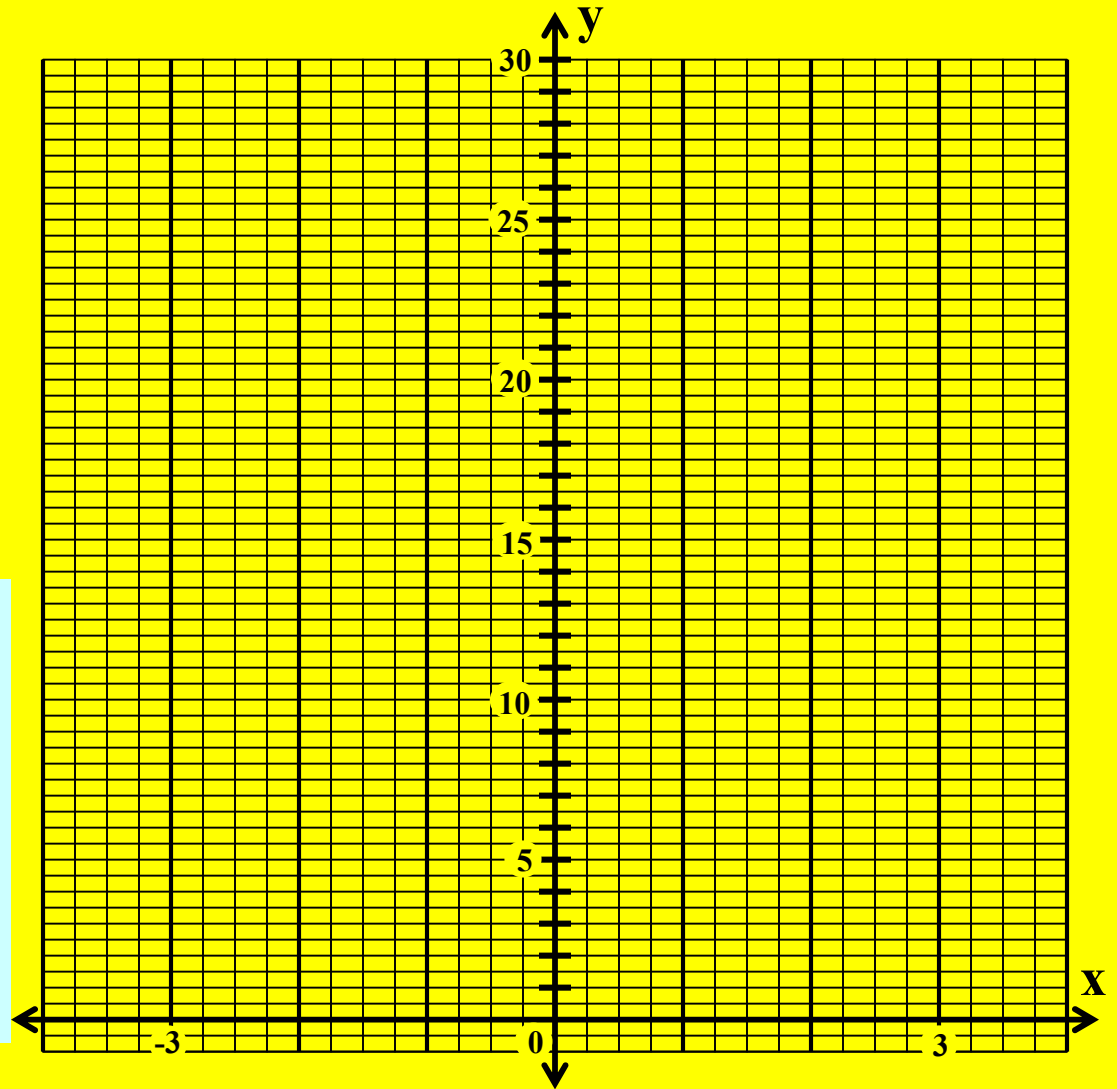
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This is an example of an **exponential function**.

We will fill out the table, plot the points,



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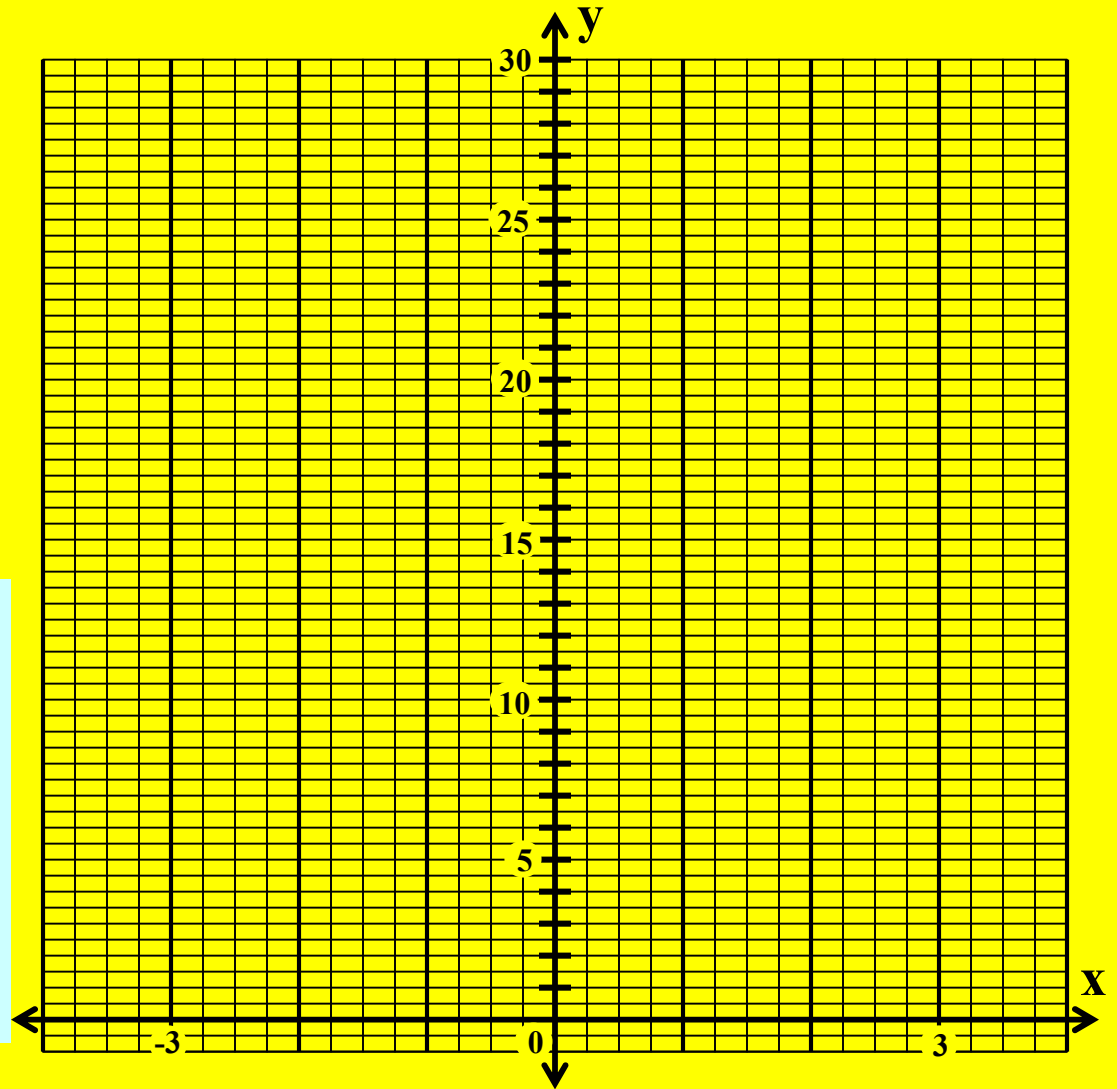
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This is an example of an **exponential function**.

We will fill out the table, plot the points, and then 'connect the dots'.

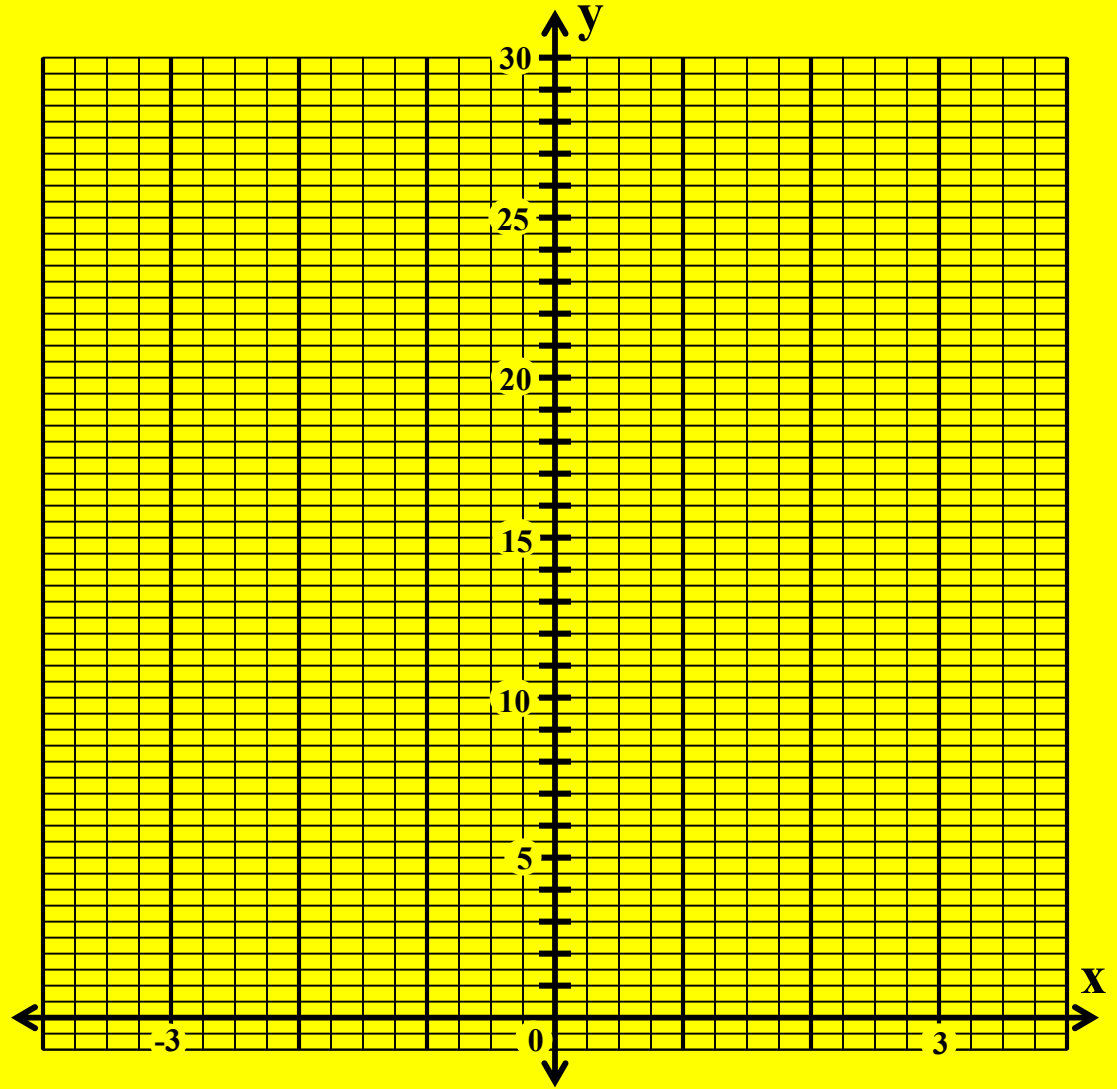


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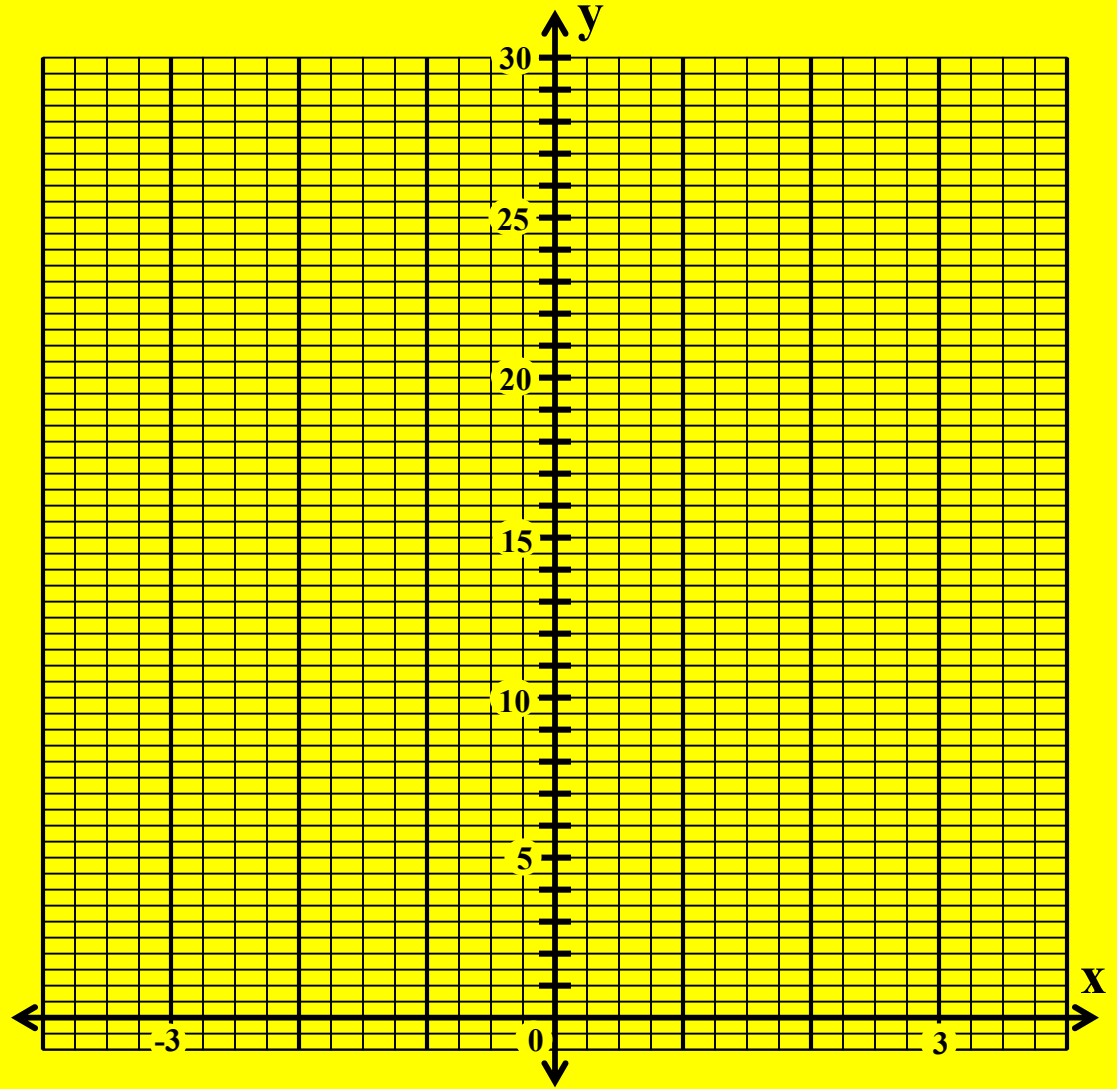


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0	
1	
2	
3	
4	

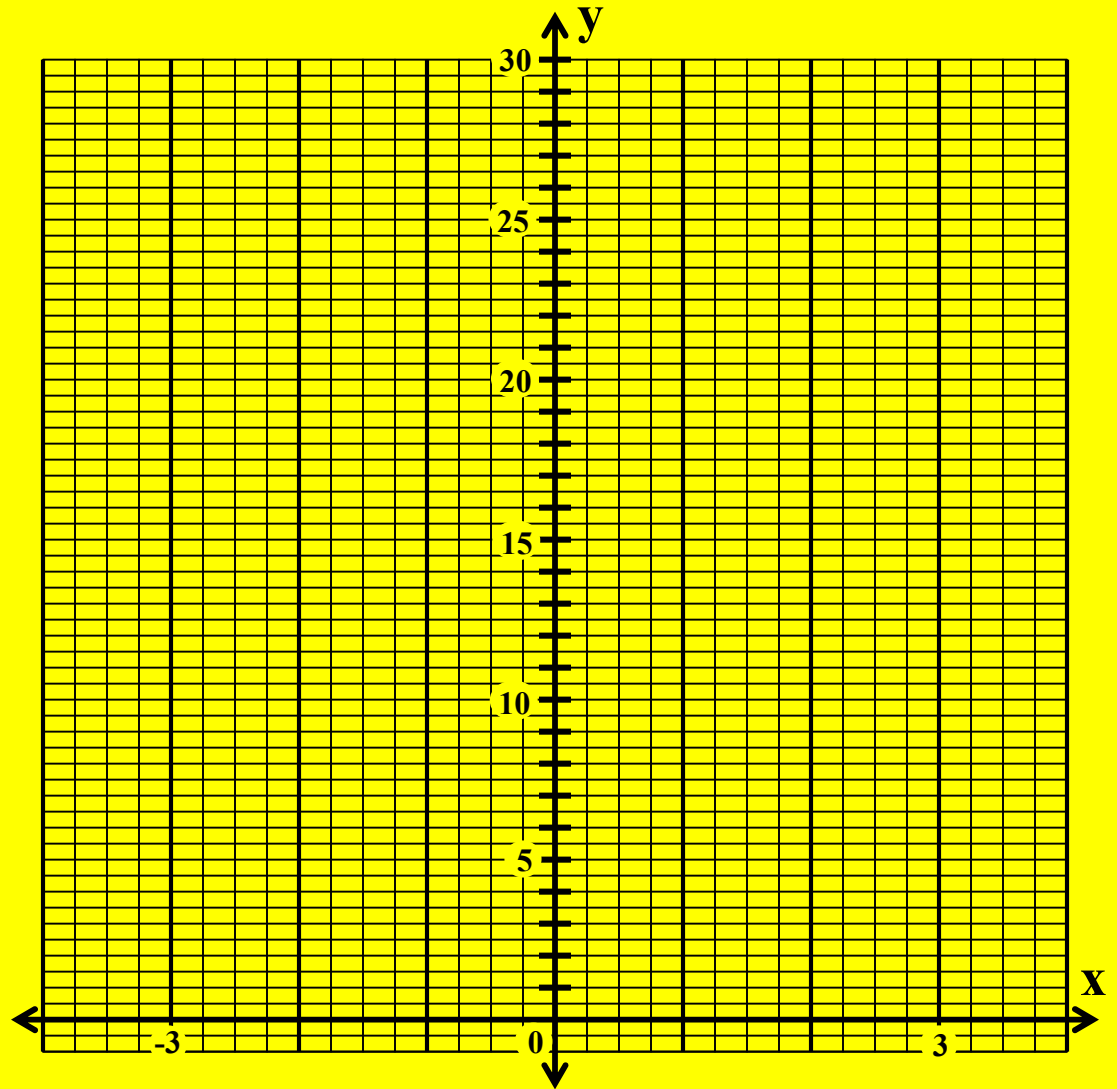


## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

1.  $y = 2^x$

x	y
-4	1/16
-3	
-2	
-1	
0	
1	
2	
3	
4	

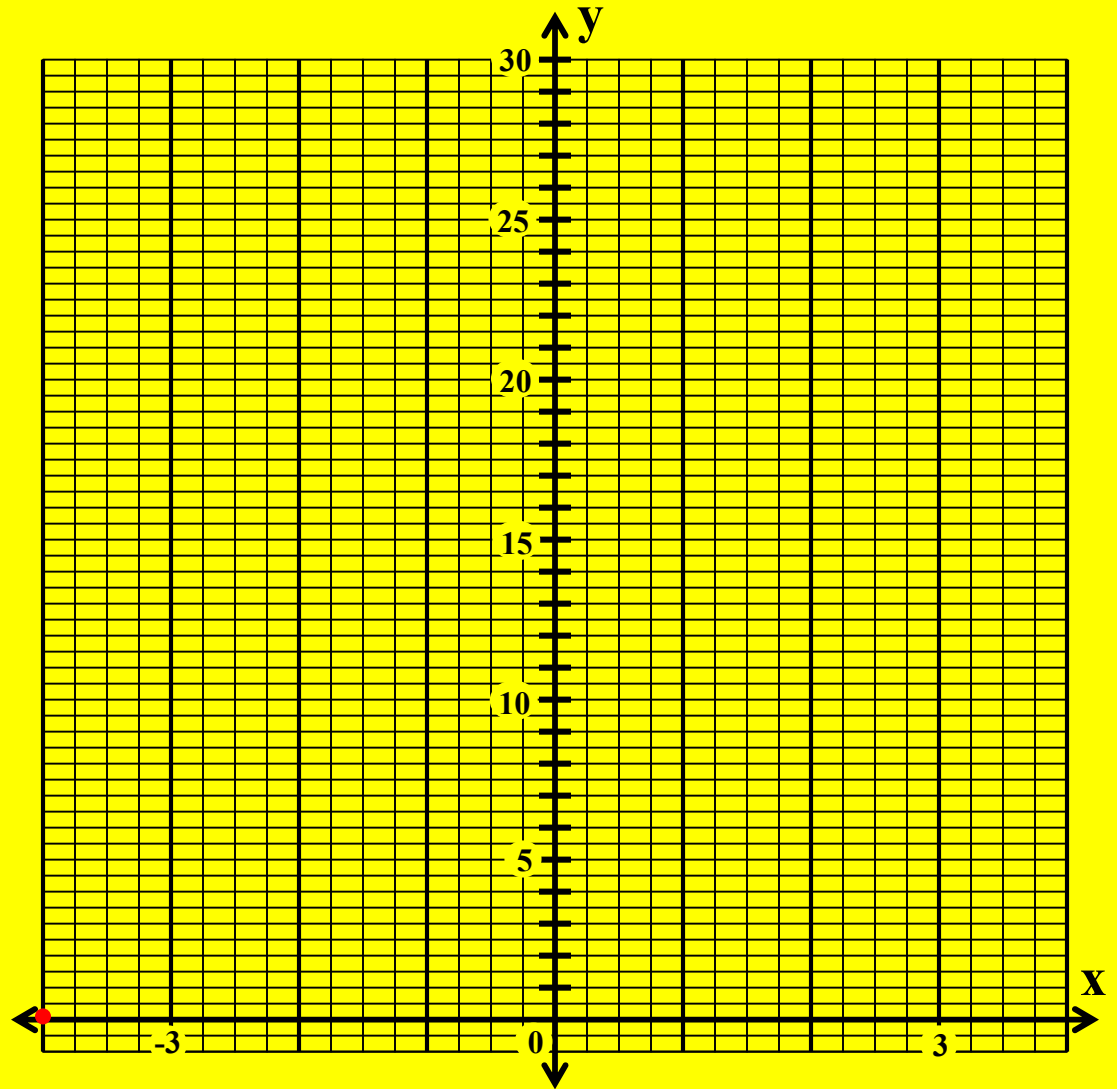


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x	y
-4	1/16
-3	
-2	
-1	
0	
1	
2	
3	
4	

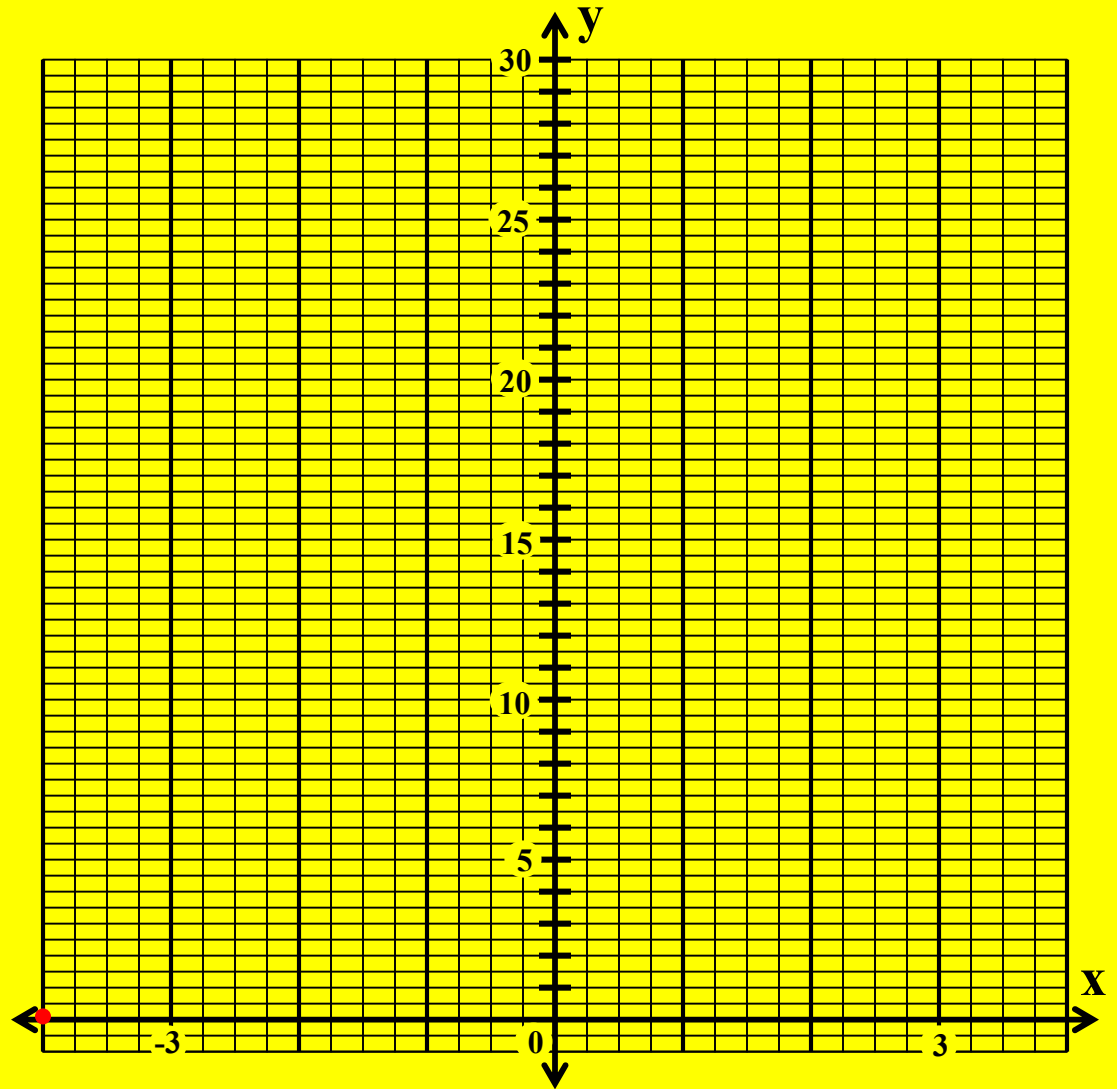


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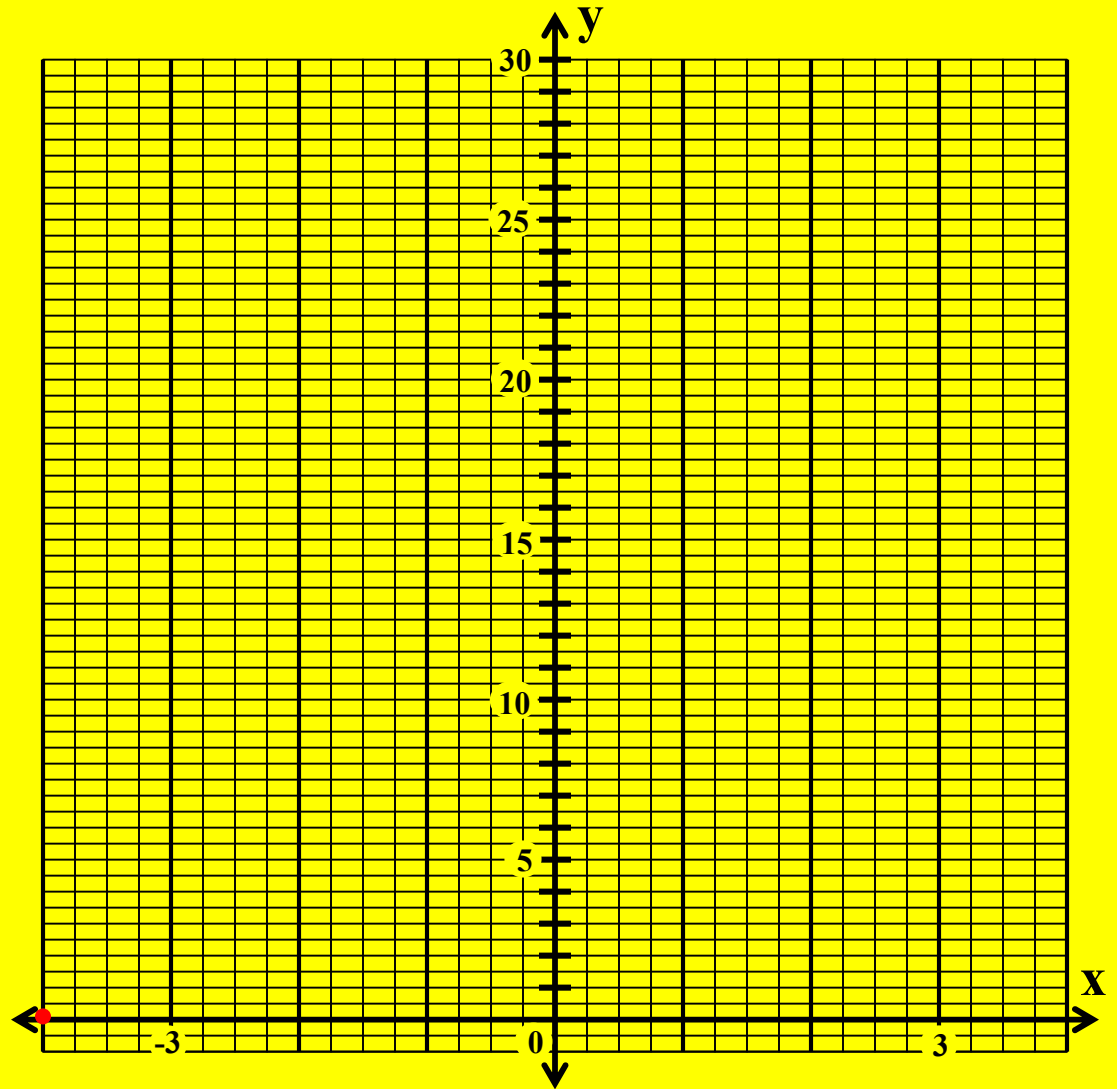


# Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

1.  $y = 2^x$

x	y
-4	1/16
-3	1/8
-2	
-1	
0	
1	
2	
3	
4	

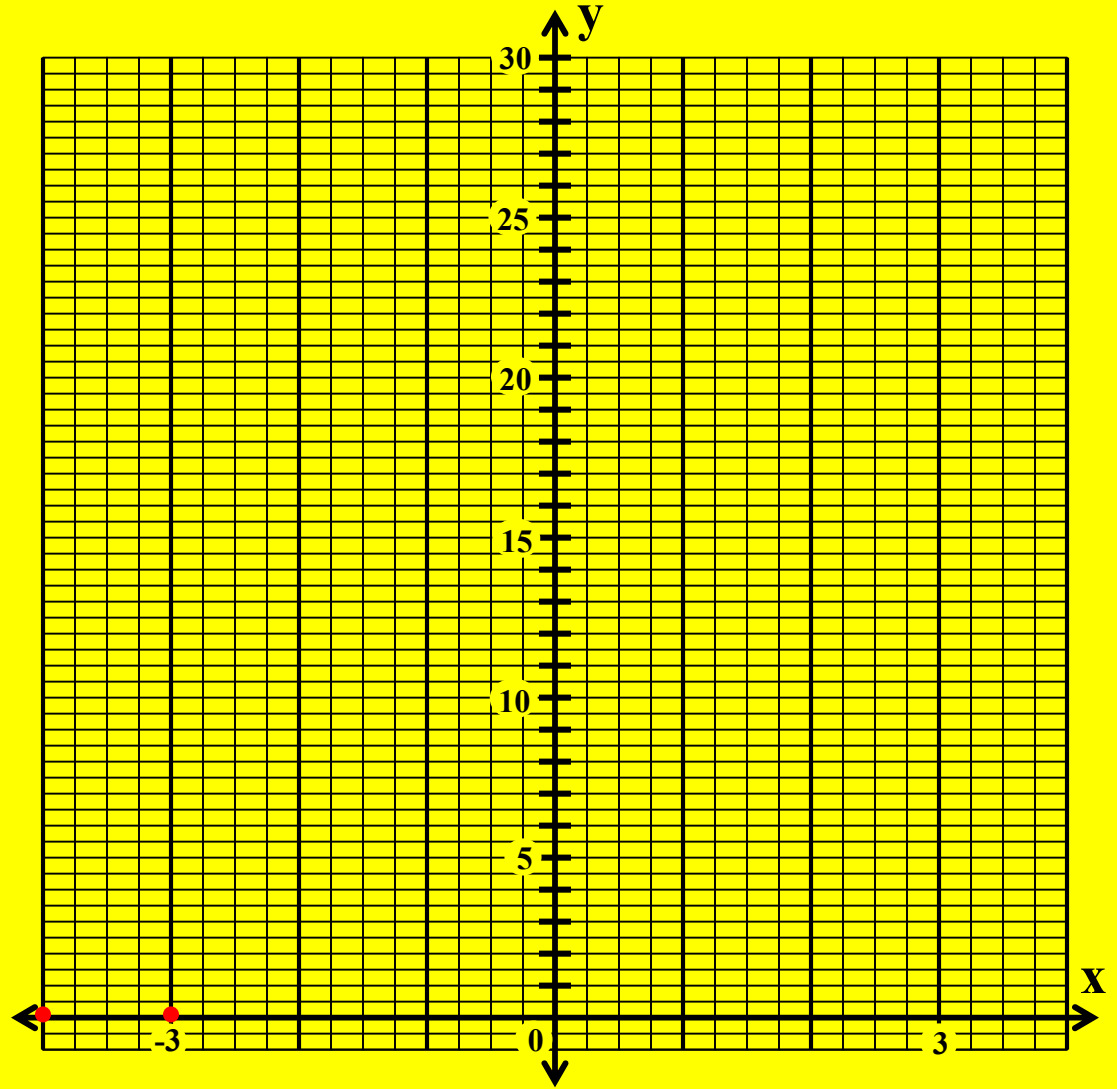


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-2	
-1	
0	
1	
2	
3	
4	

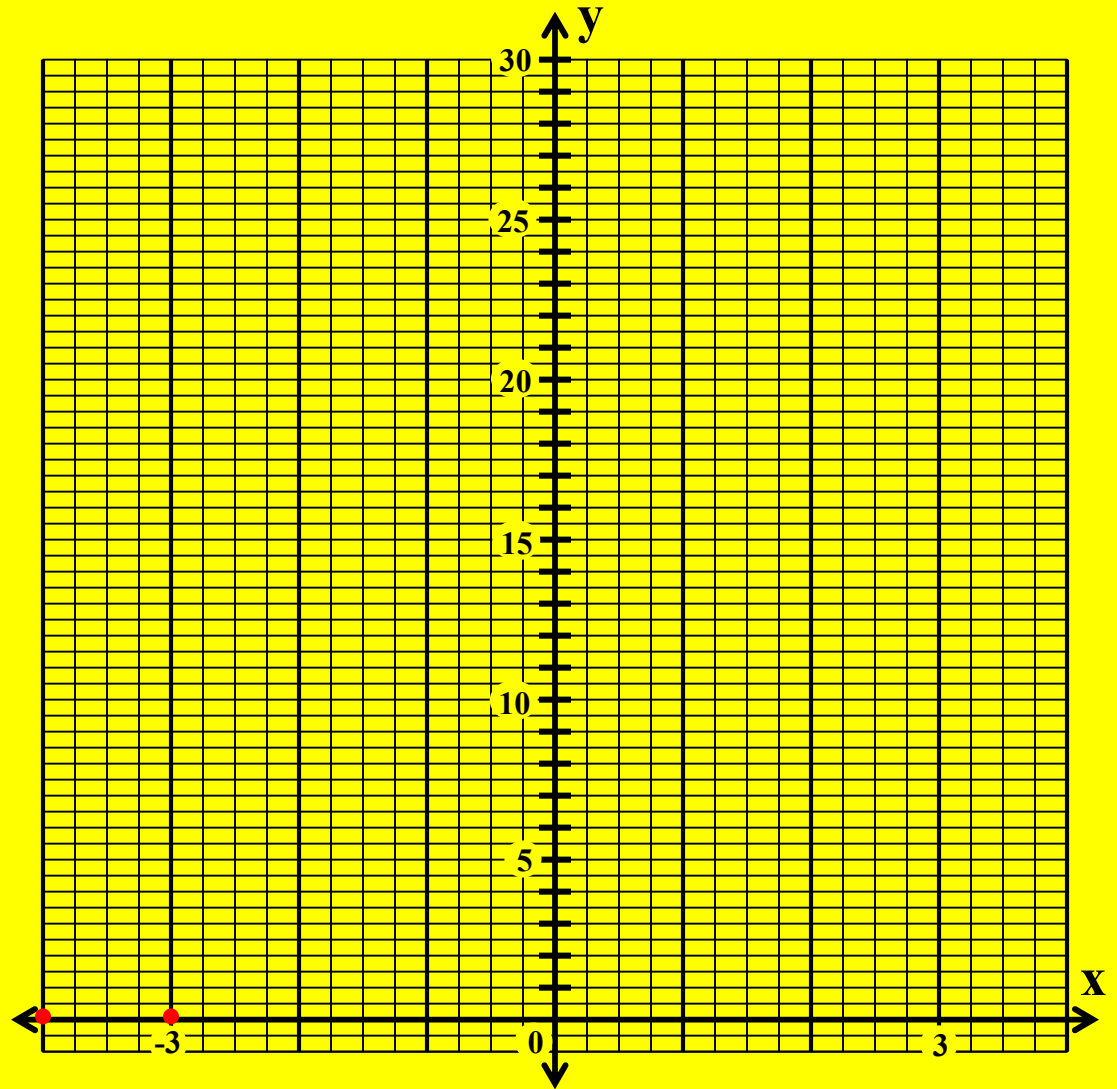


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-2	1/4
-1	1/2
0	1
1	2
2	4
3	8
4	16

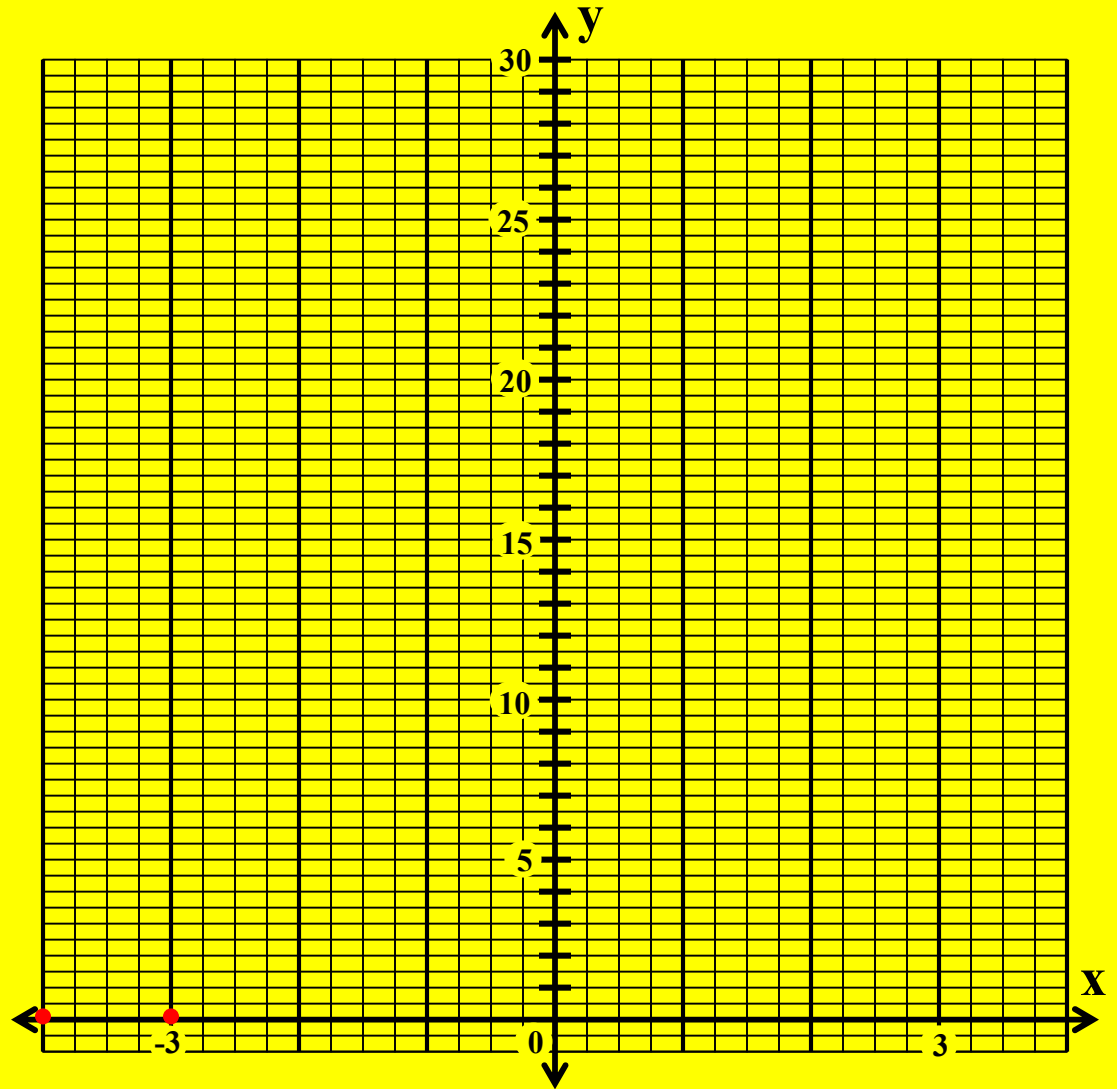


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2	
3	
4	



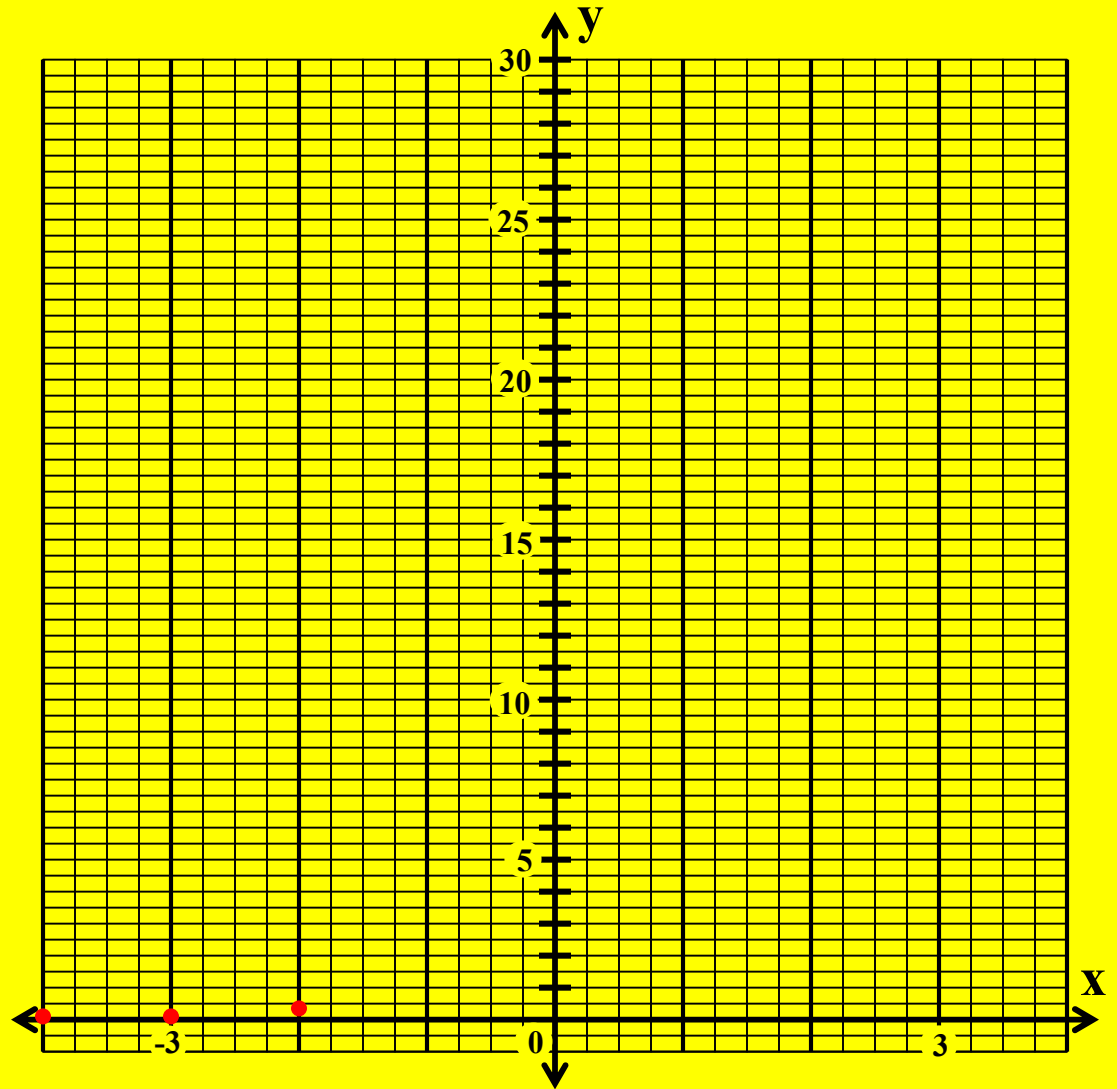


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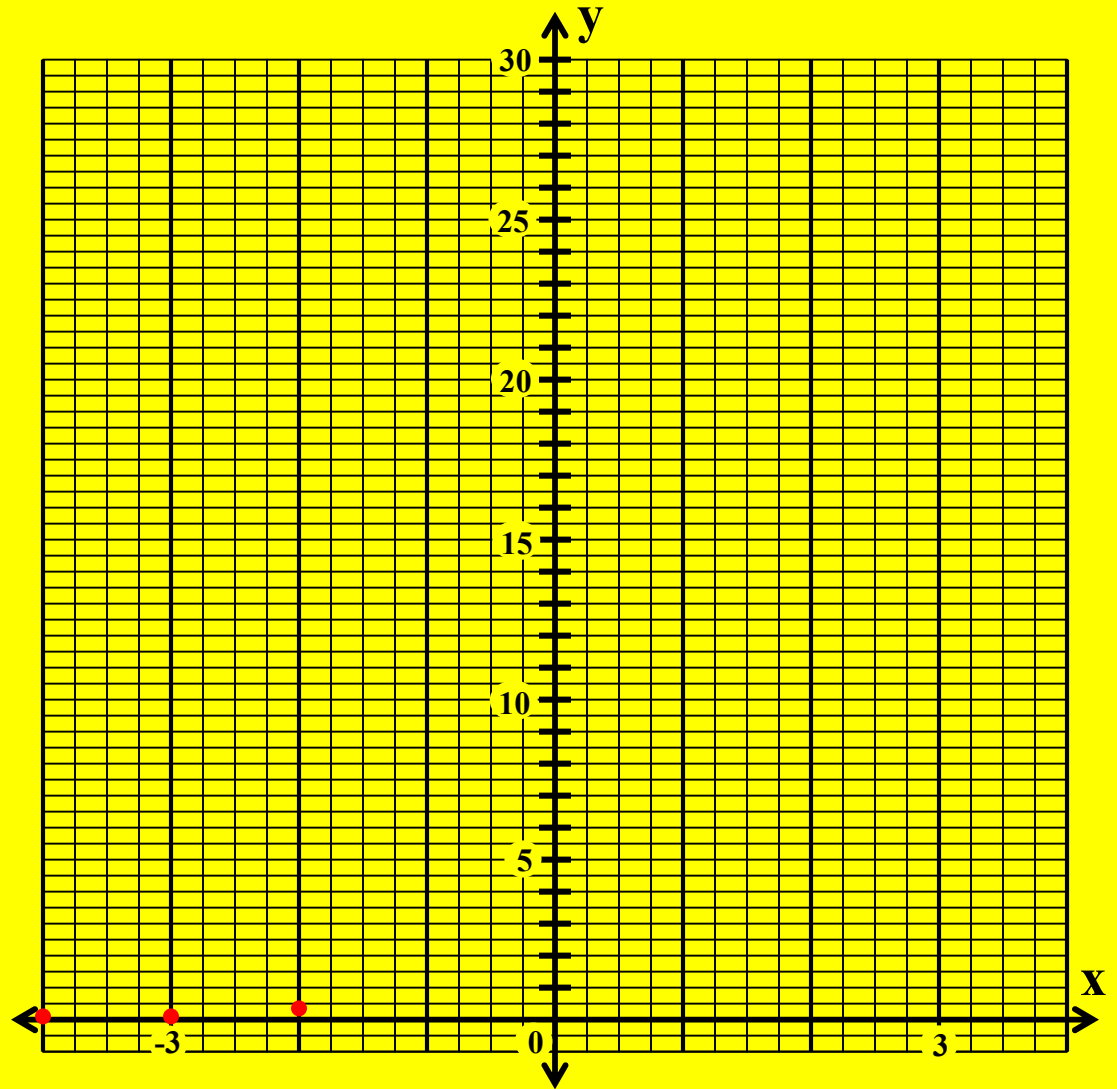


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1	2
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3	8
4	16

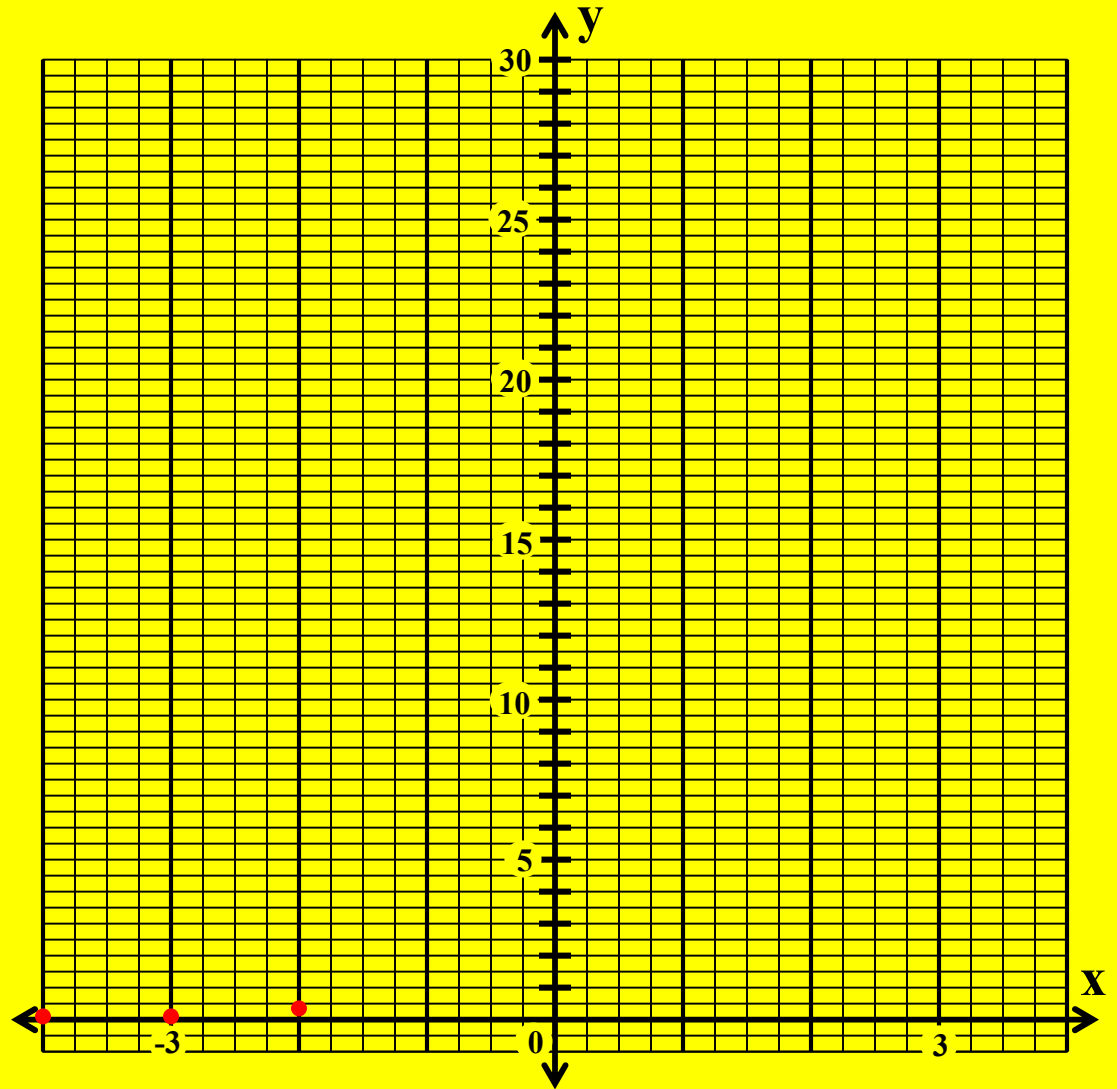


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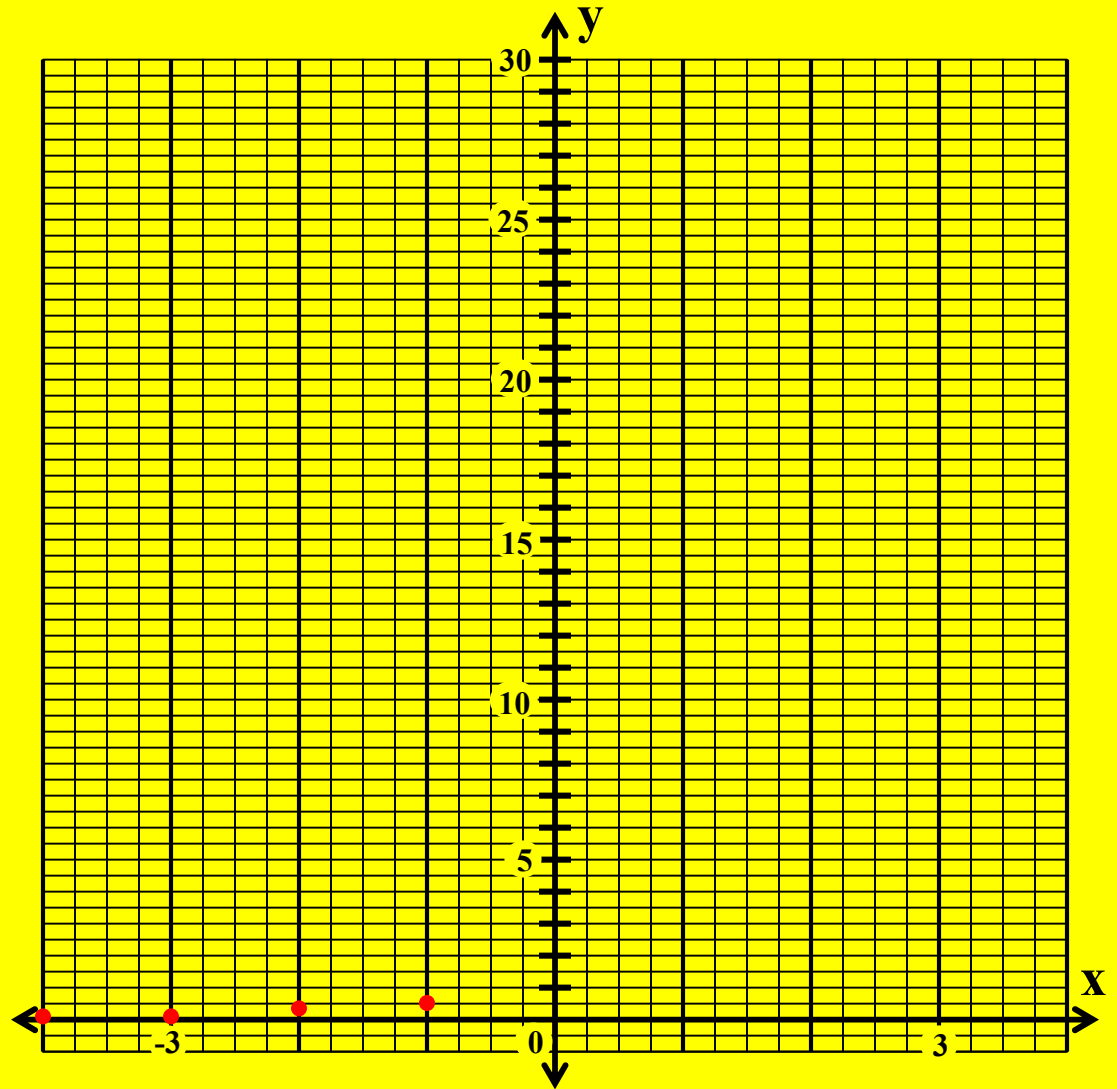


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3	8
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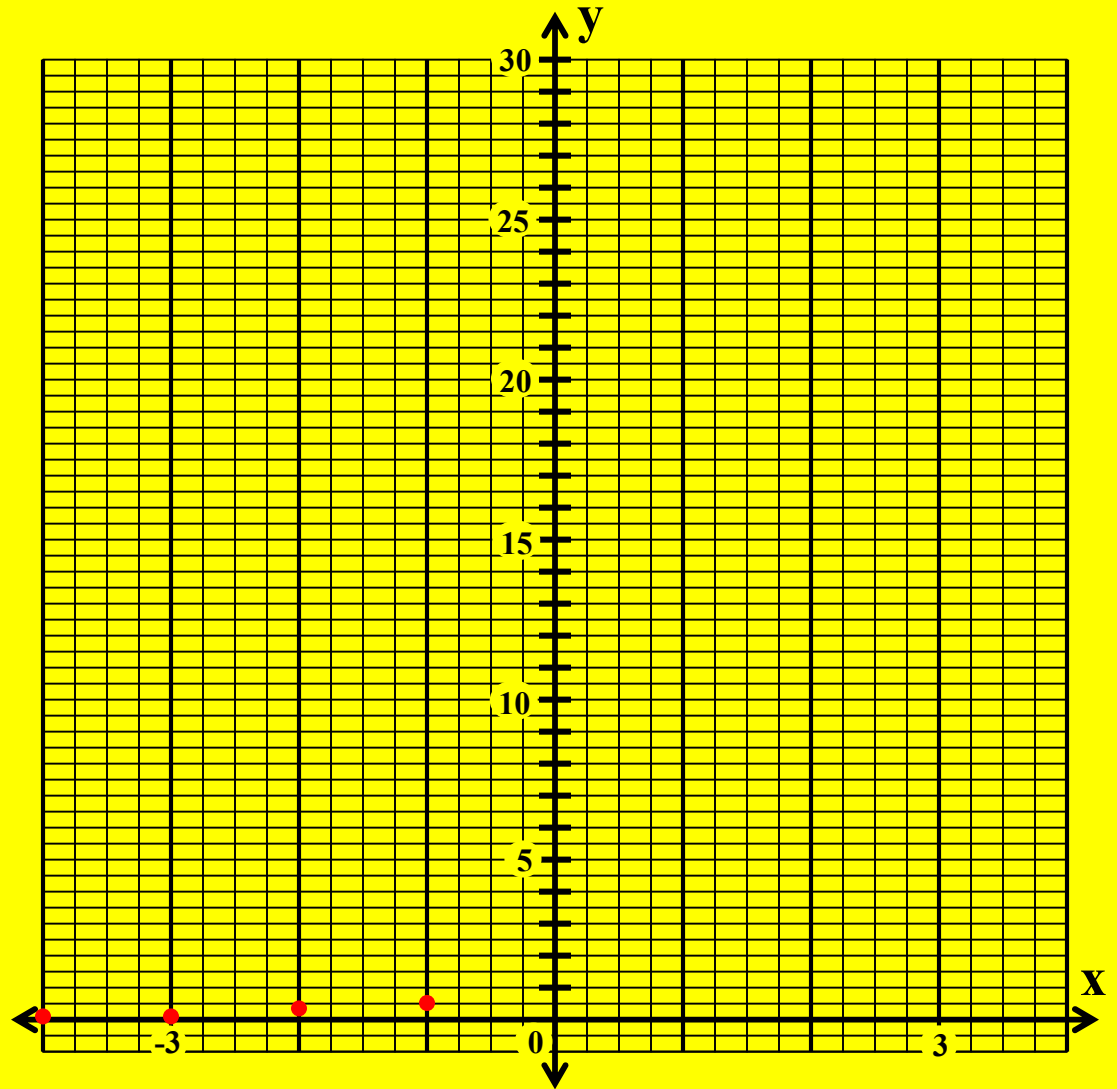


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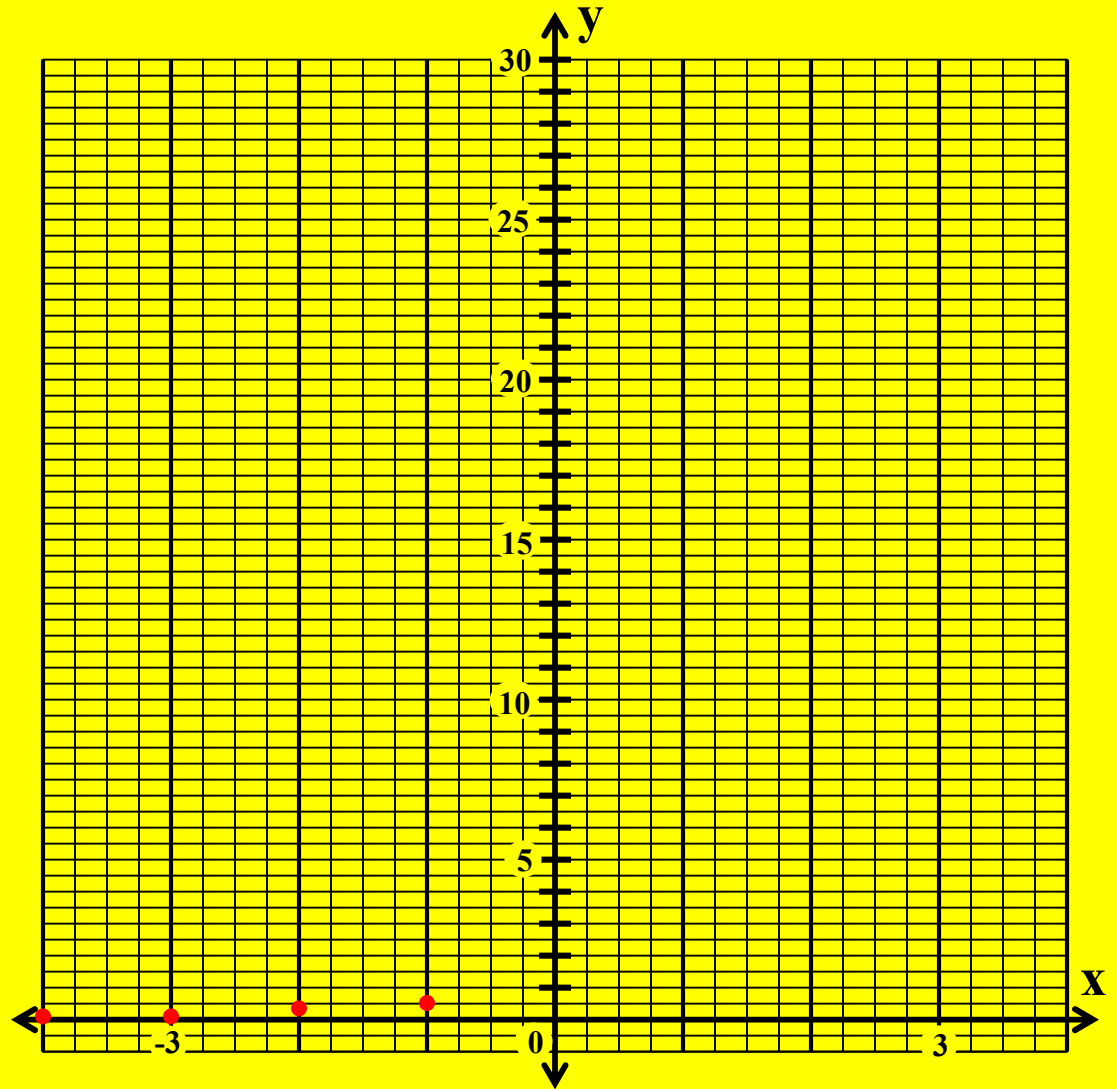


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3	8
4	16

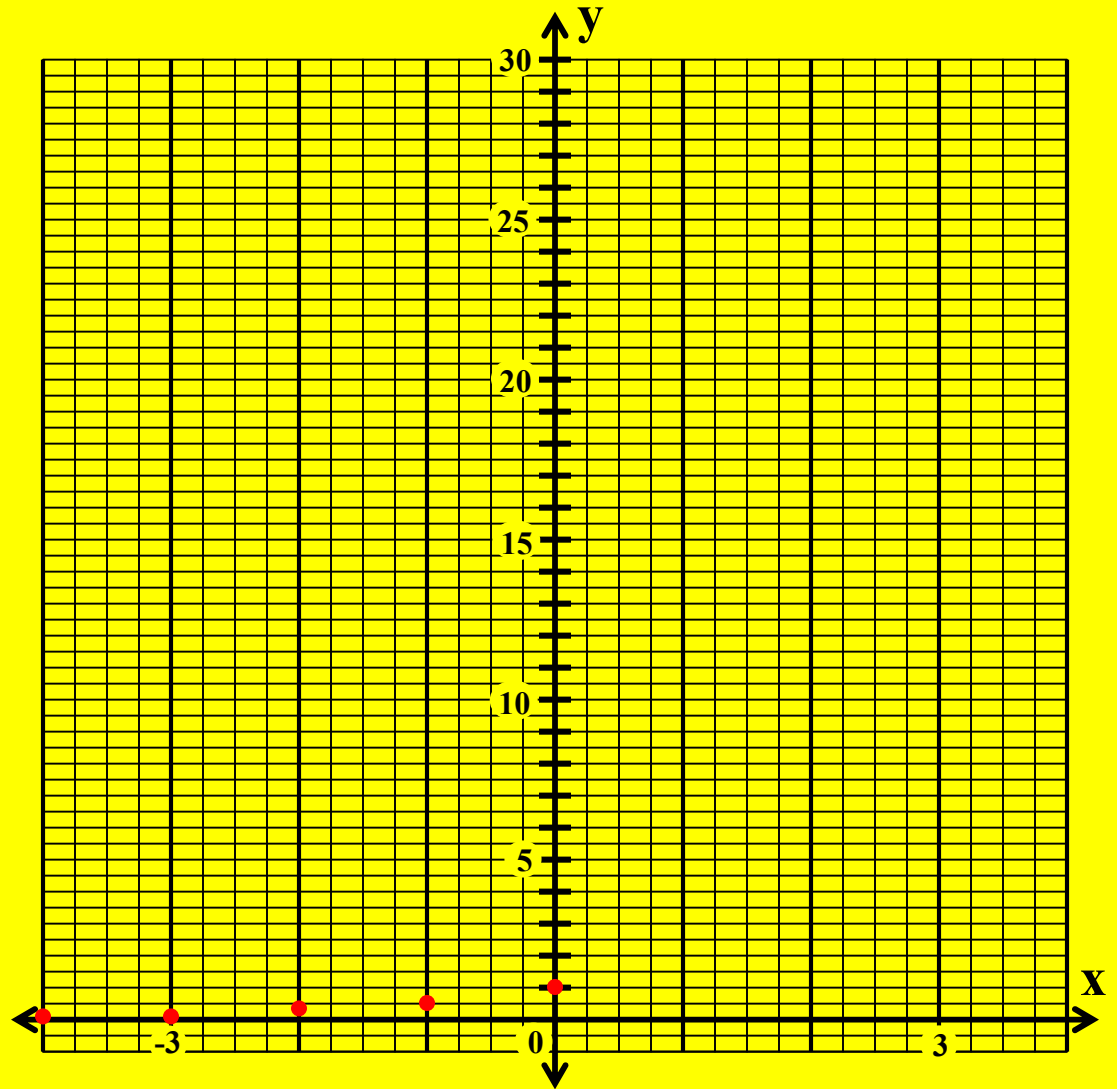


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1	2
2	4
3	8
4	16

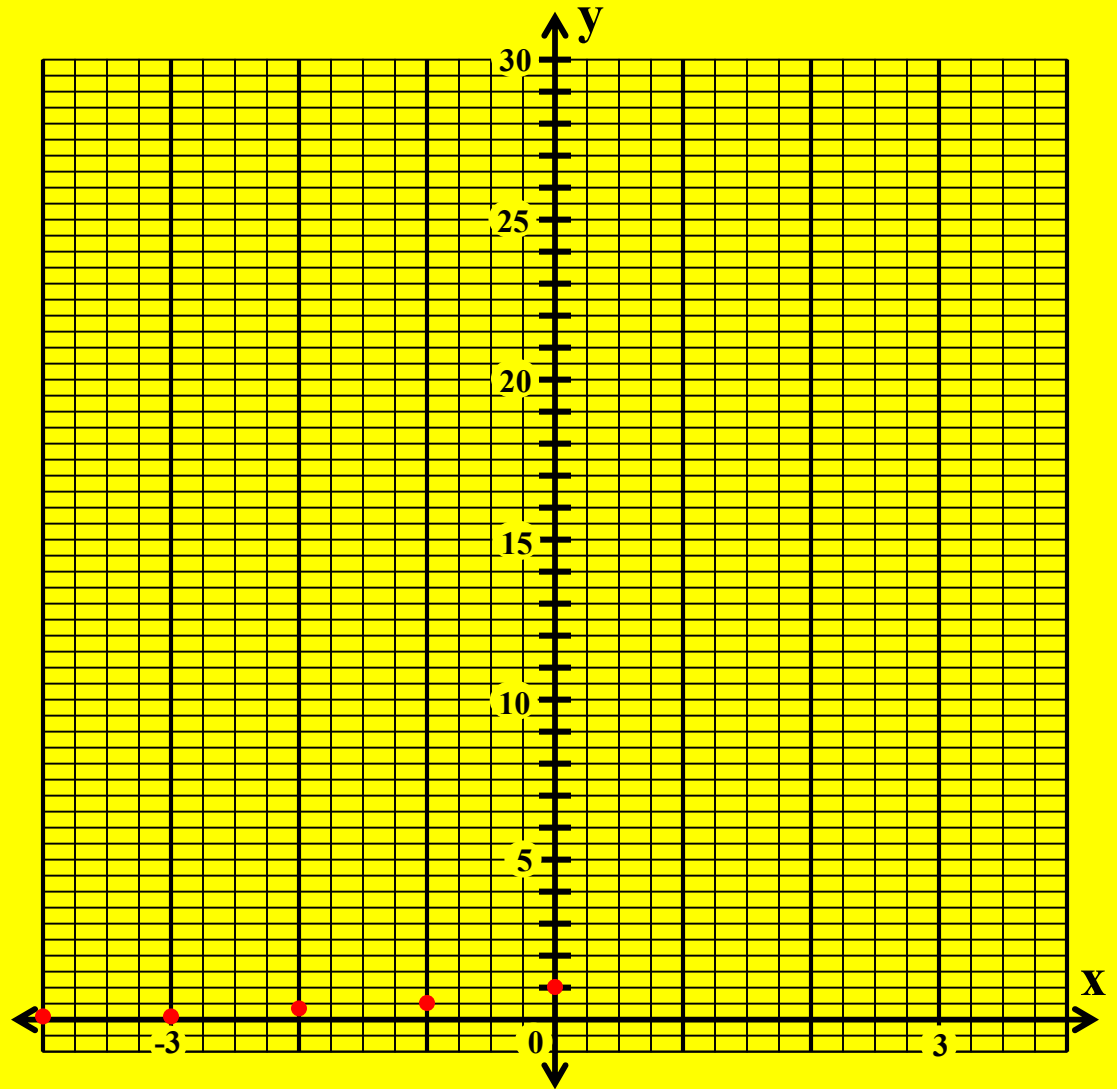


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4	16



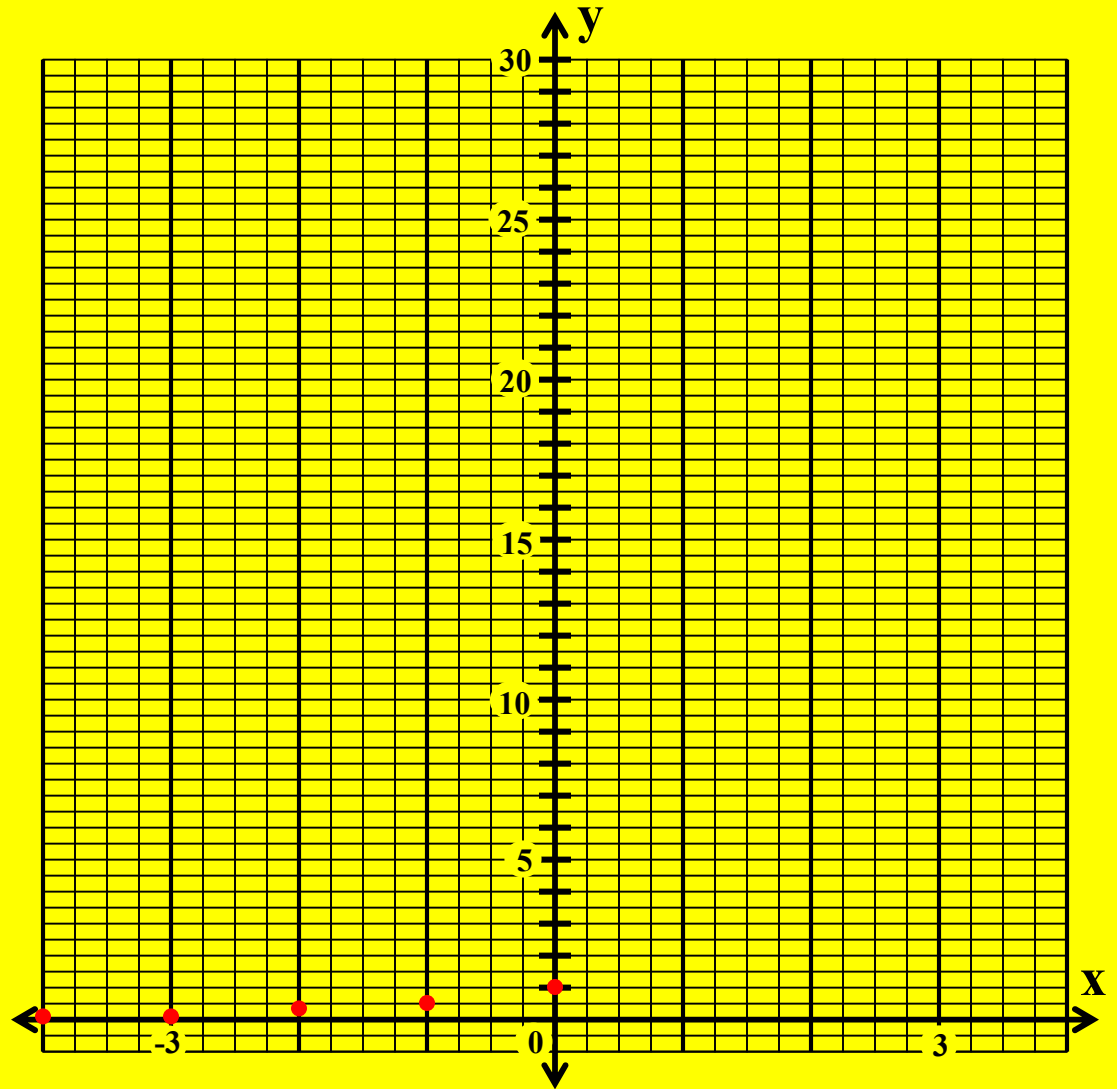


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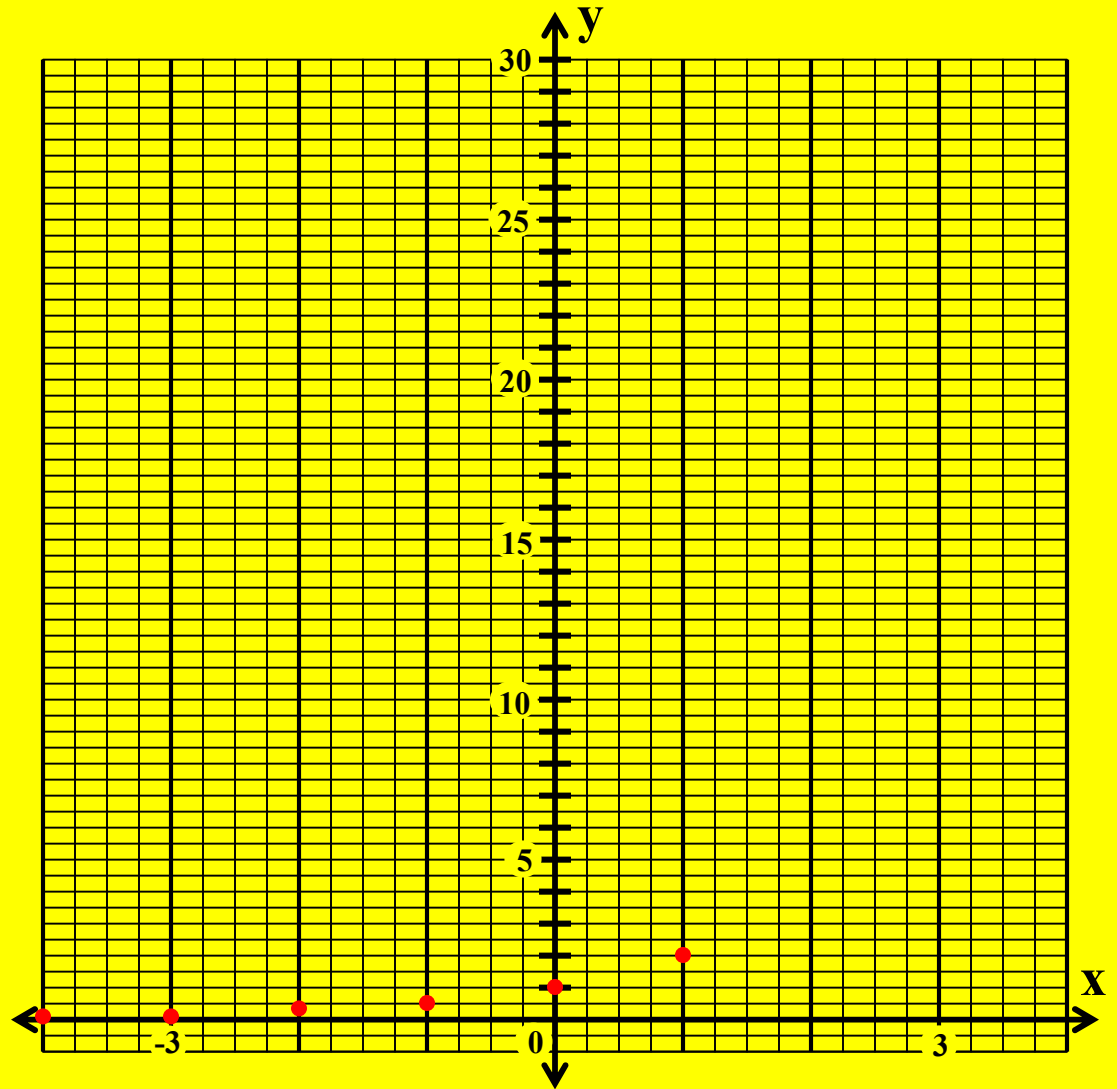


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0	1
1	2
2	
3	
4	

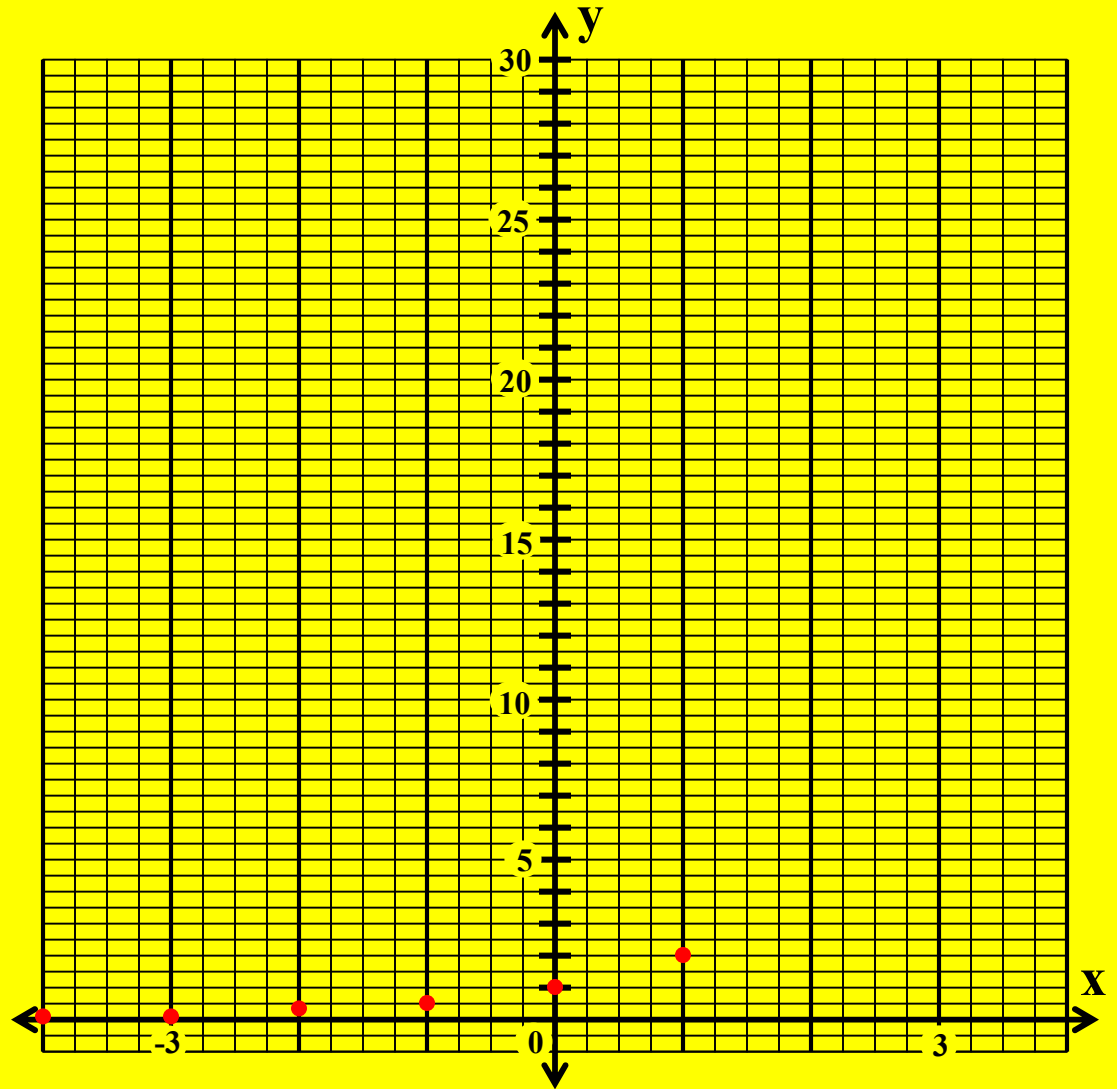


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2	4
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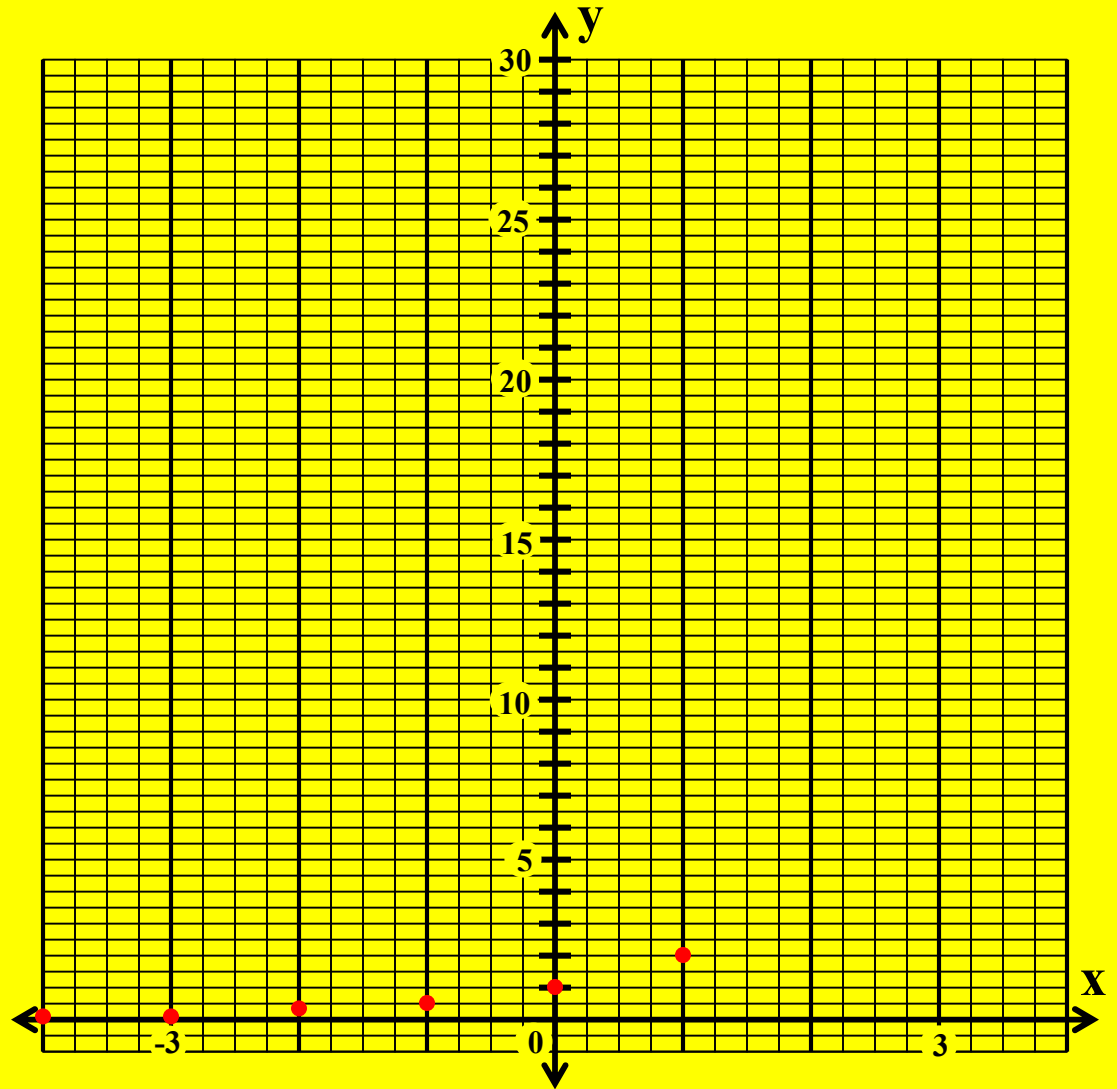


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0	1
1	2
2	4
3	8
4	16

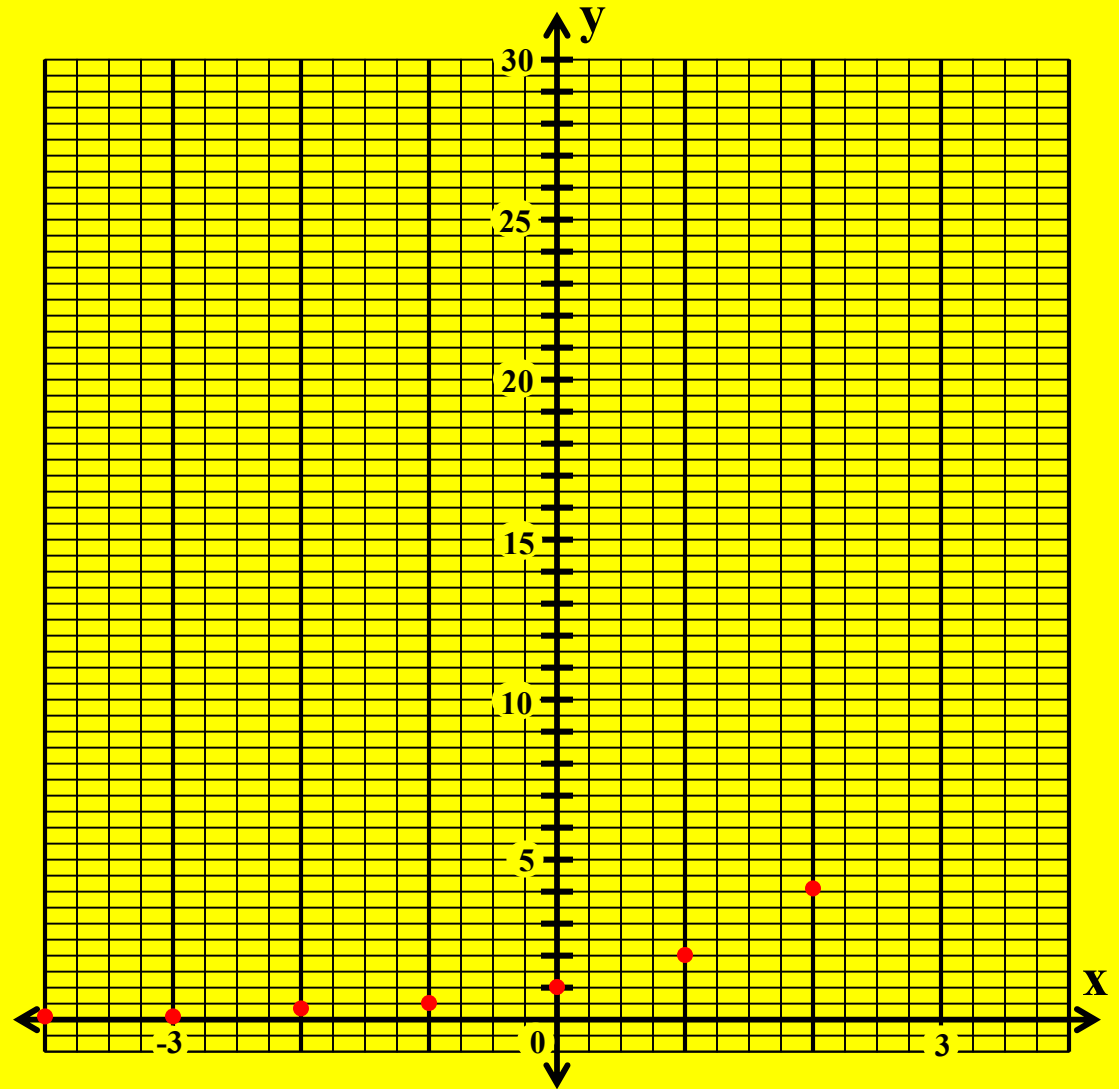


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3	8
4	16

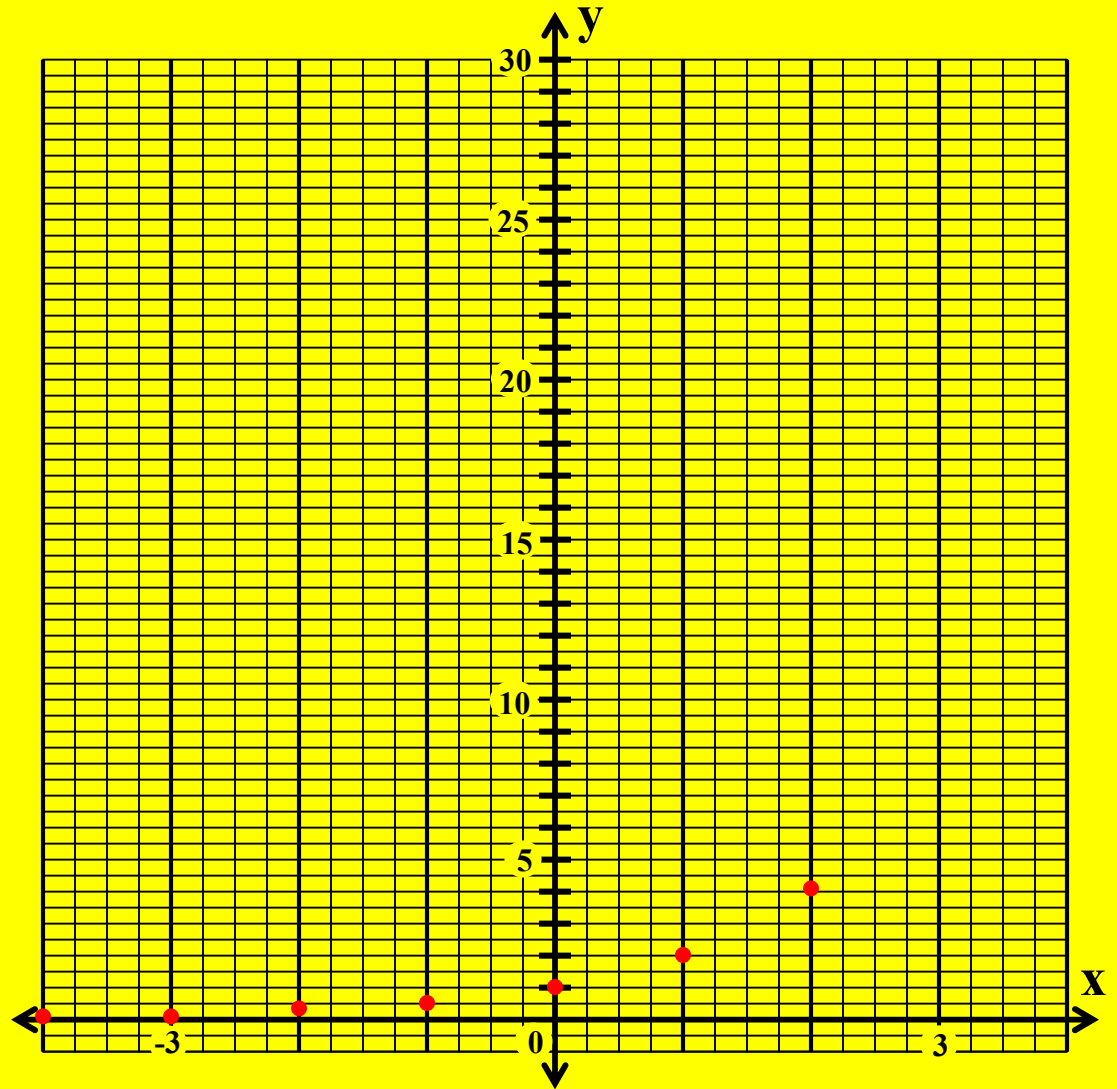


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4	16

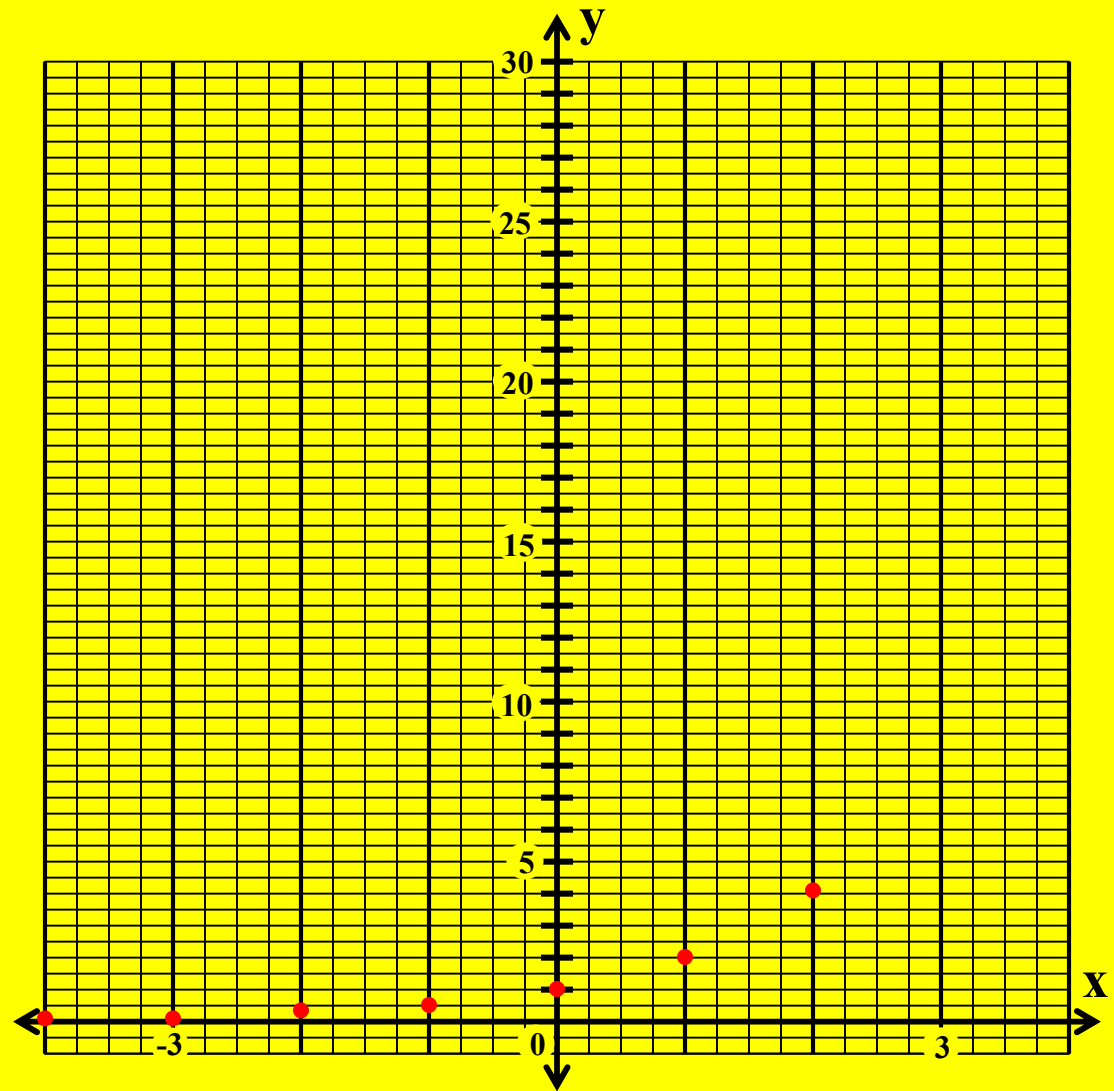


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1	2
2	4
3	8
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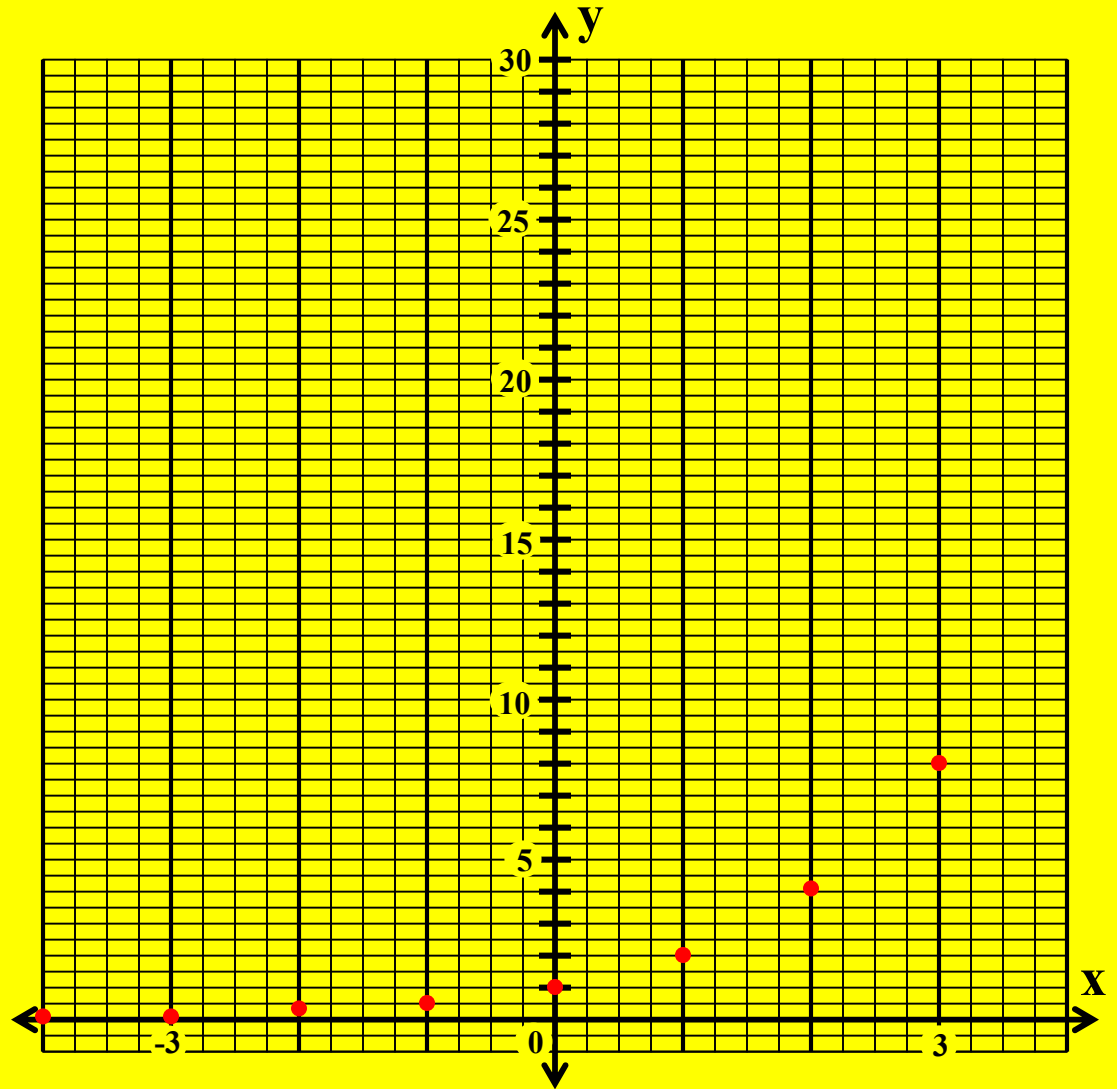


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1	2
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3	8
4	16



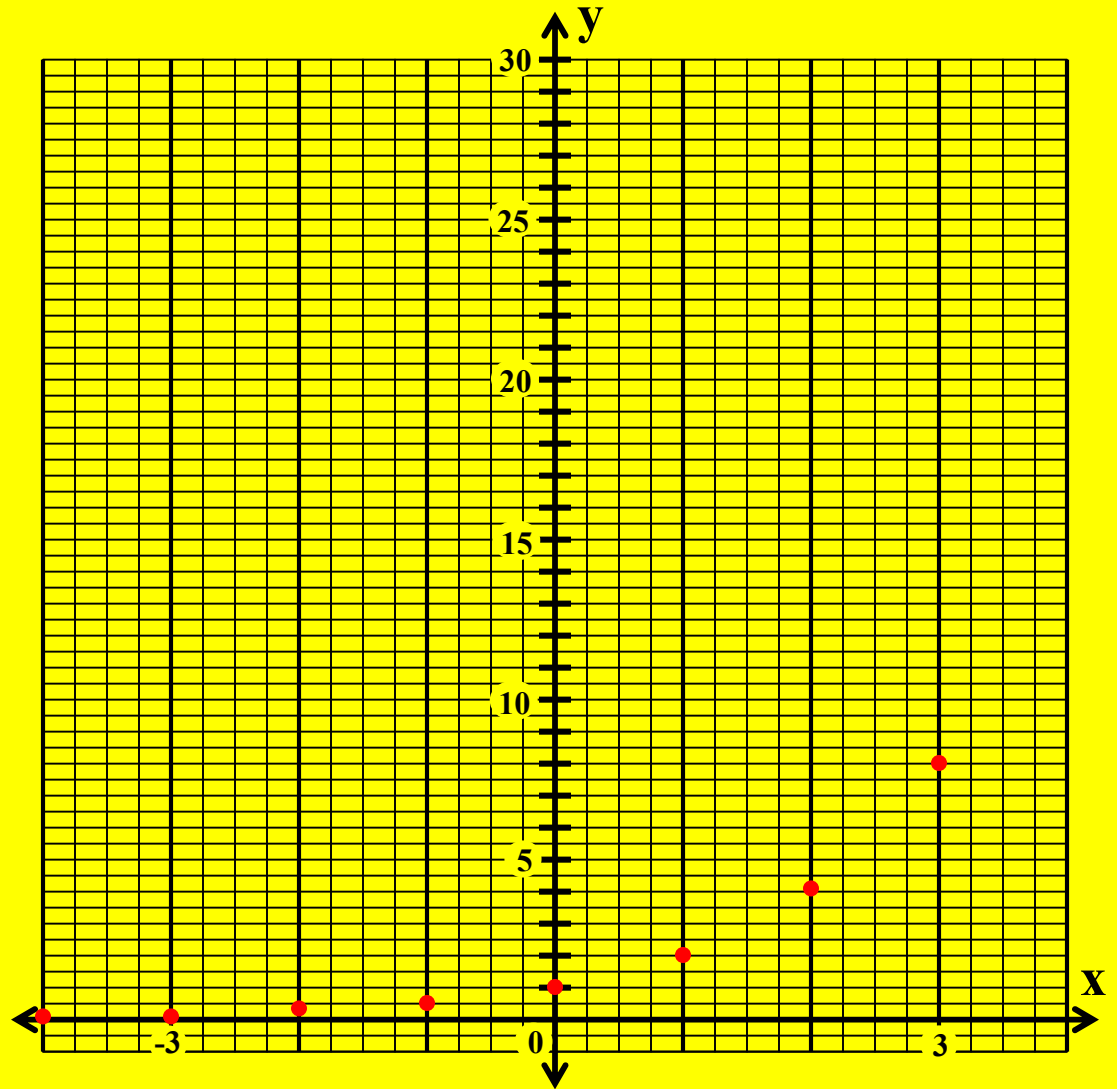


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2	4
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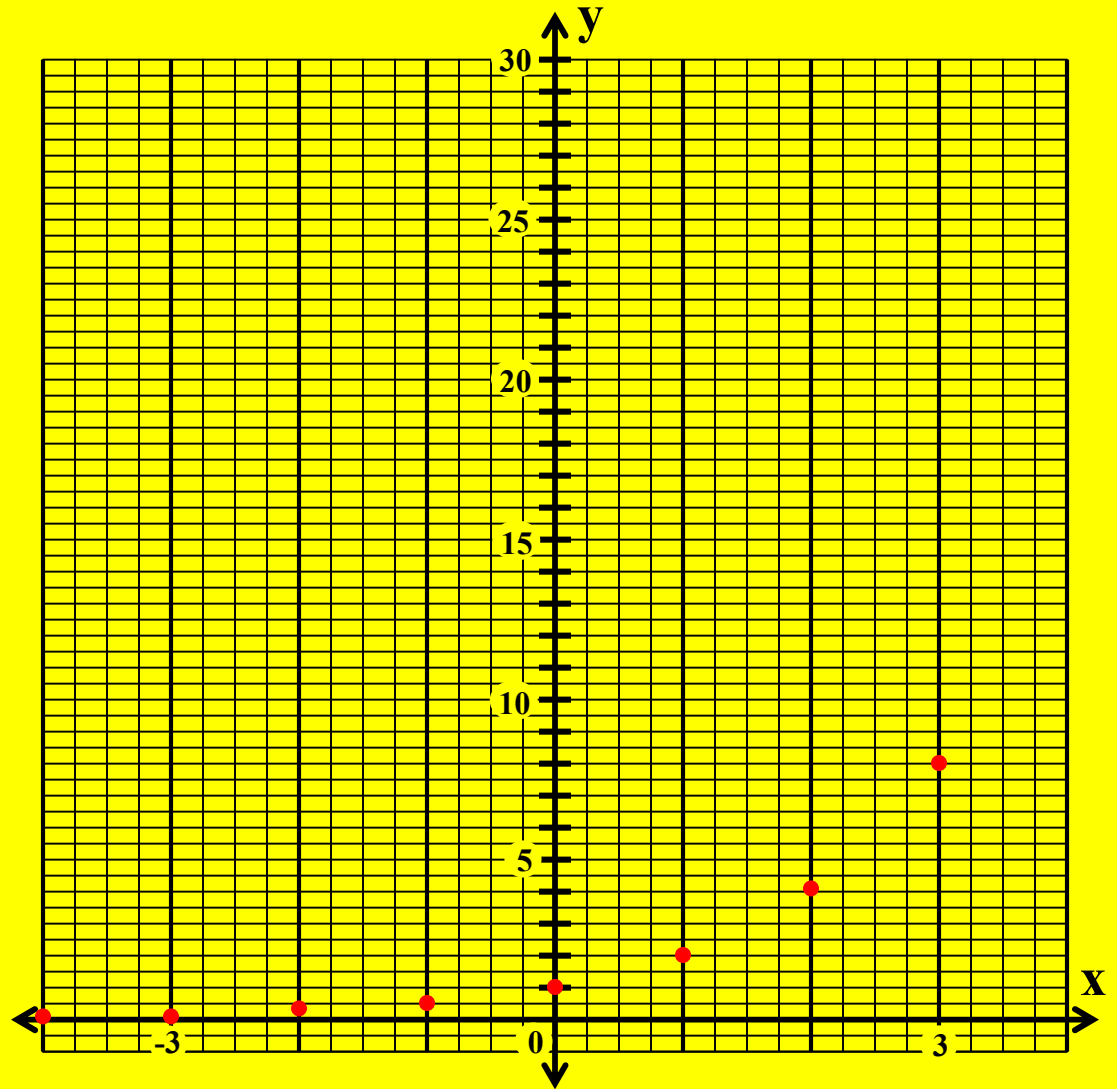


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1	2
2	4
3	8
4	16

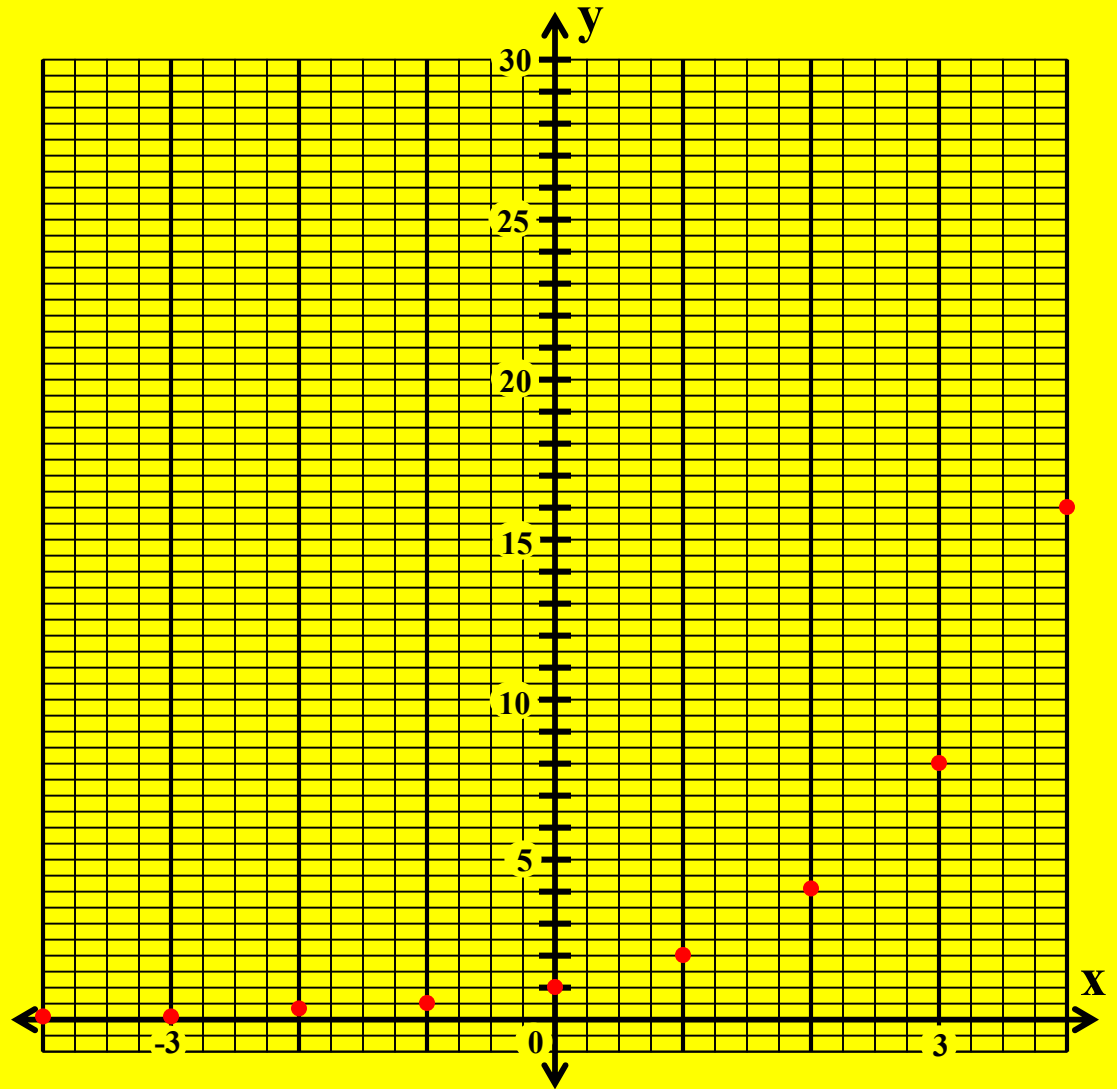


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-2	1/4
-1	1/2
0	1
1	2
2	4
3	8
4	16

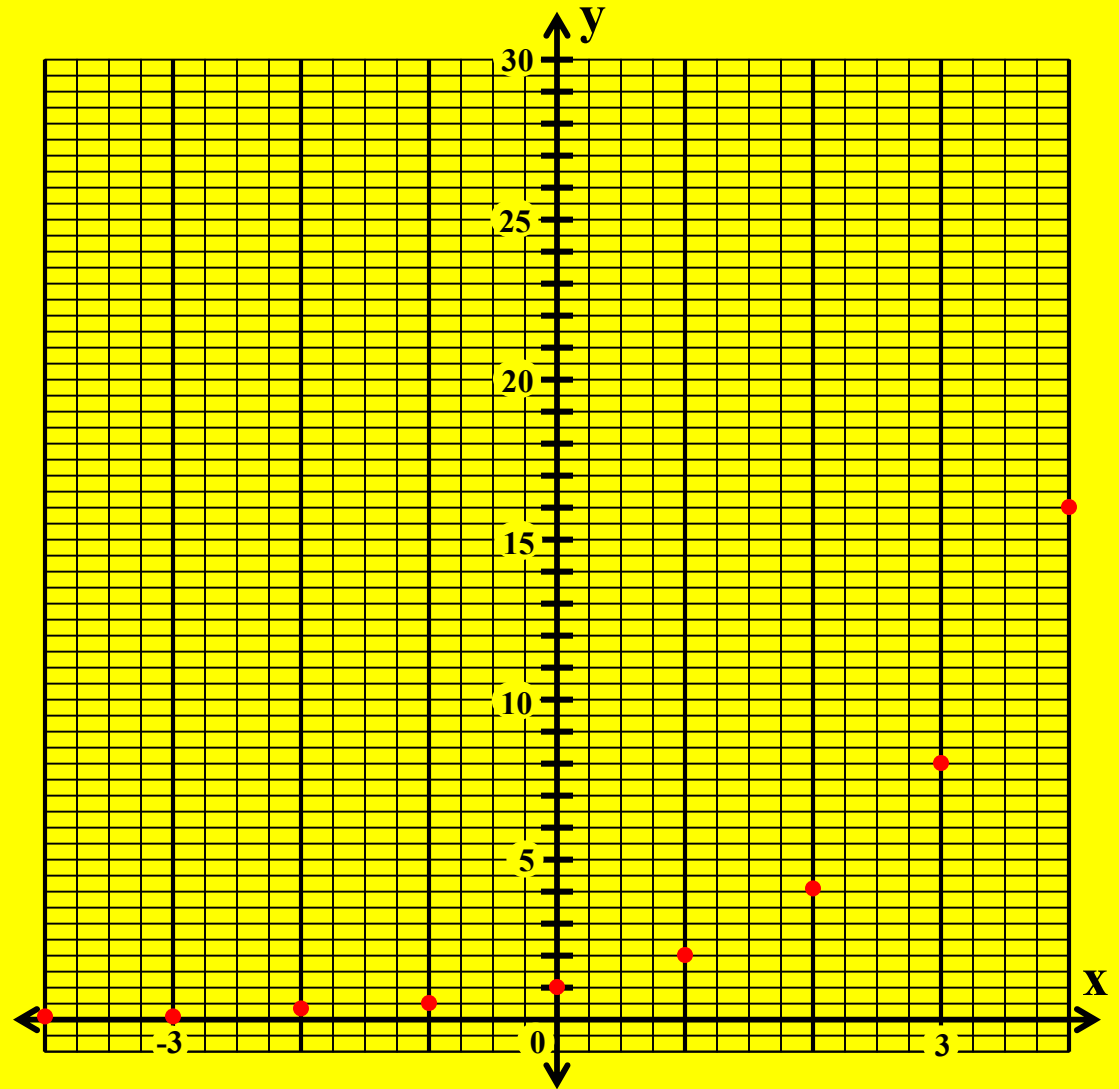


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0	1
1	2
2	4
3	8
4	16

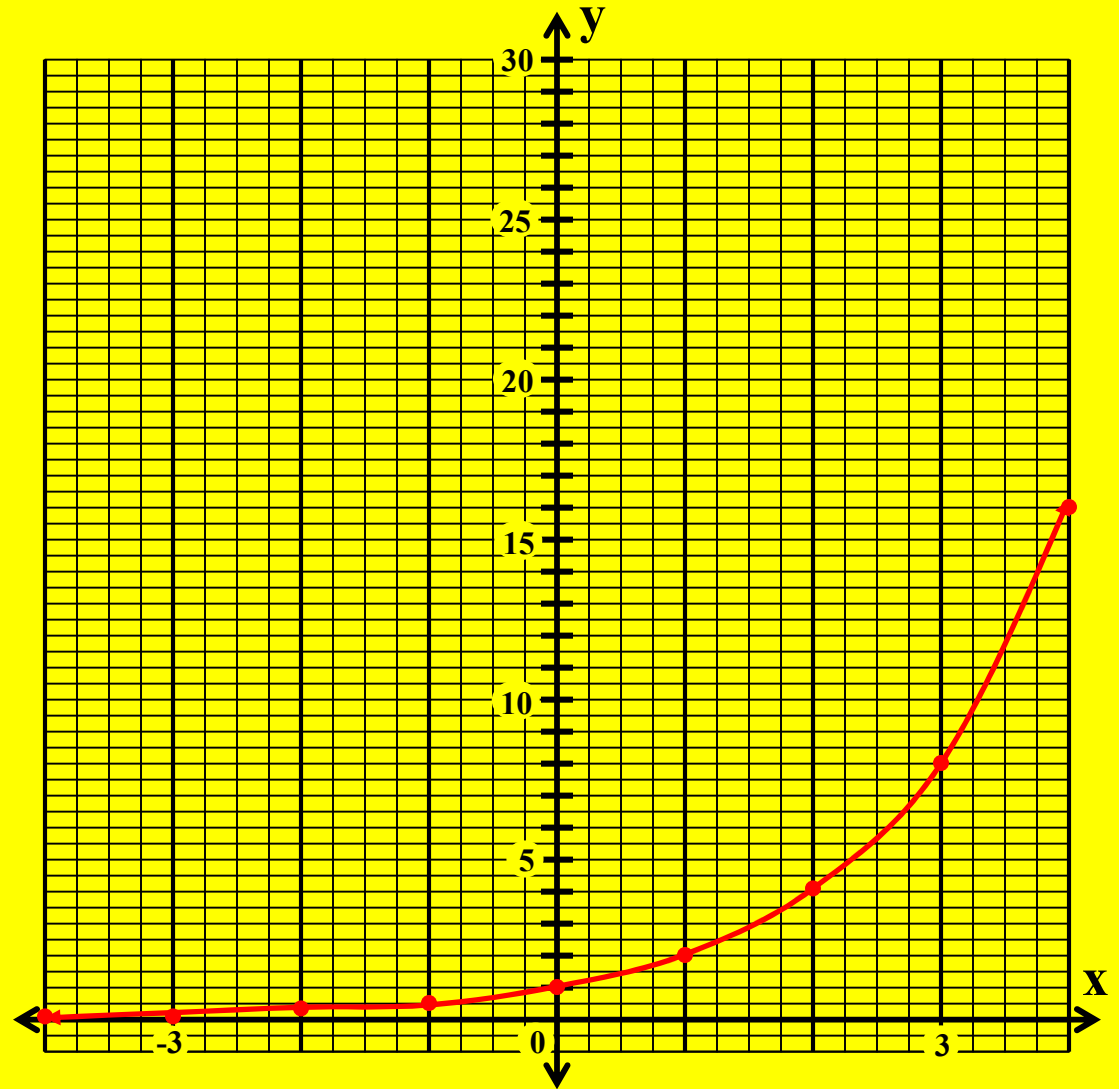


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-1	1/2
0	1
1	2
2	4
3	8
4	16

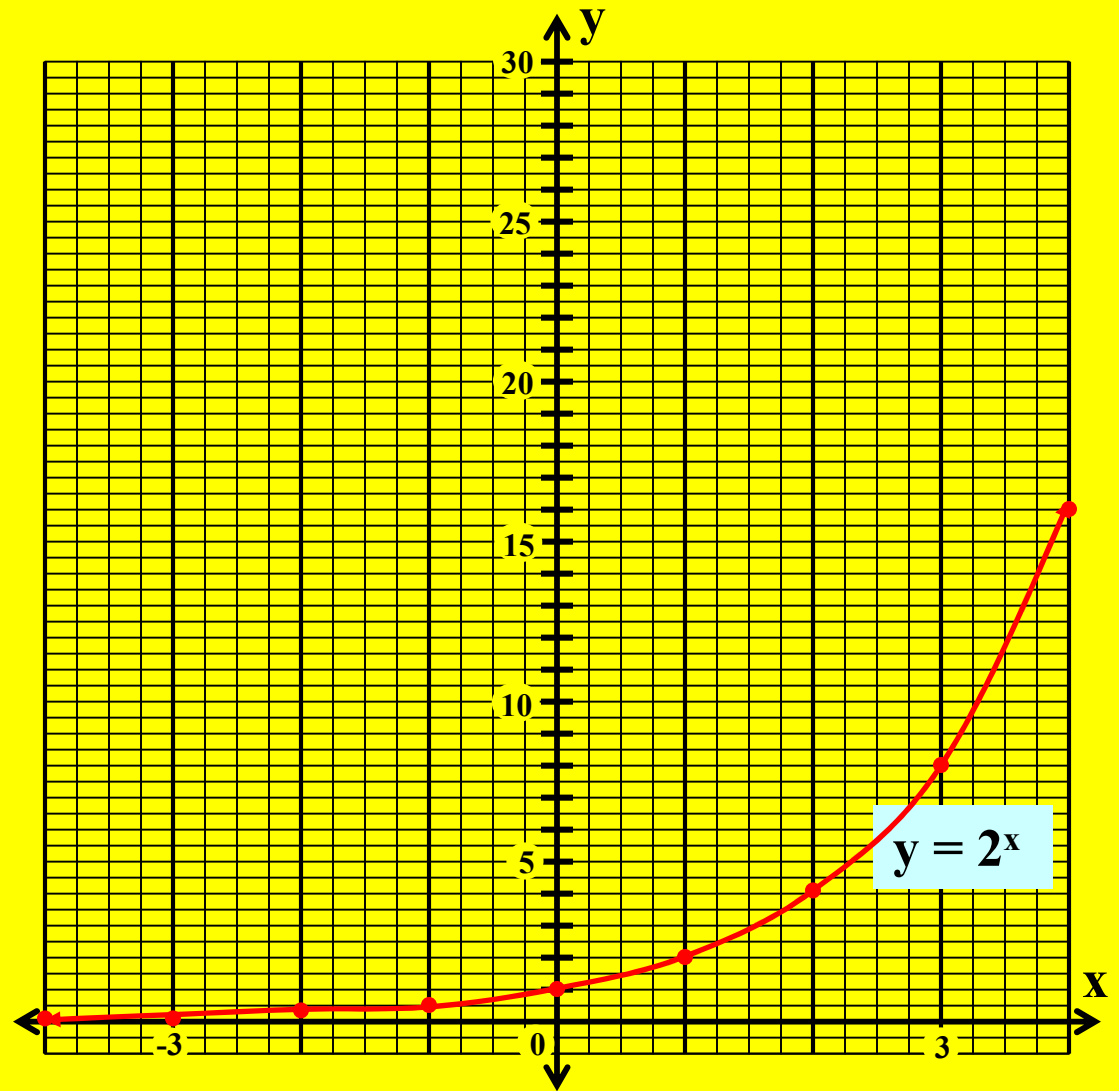


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2	4
3	8
4	16



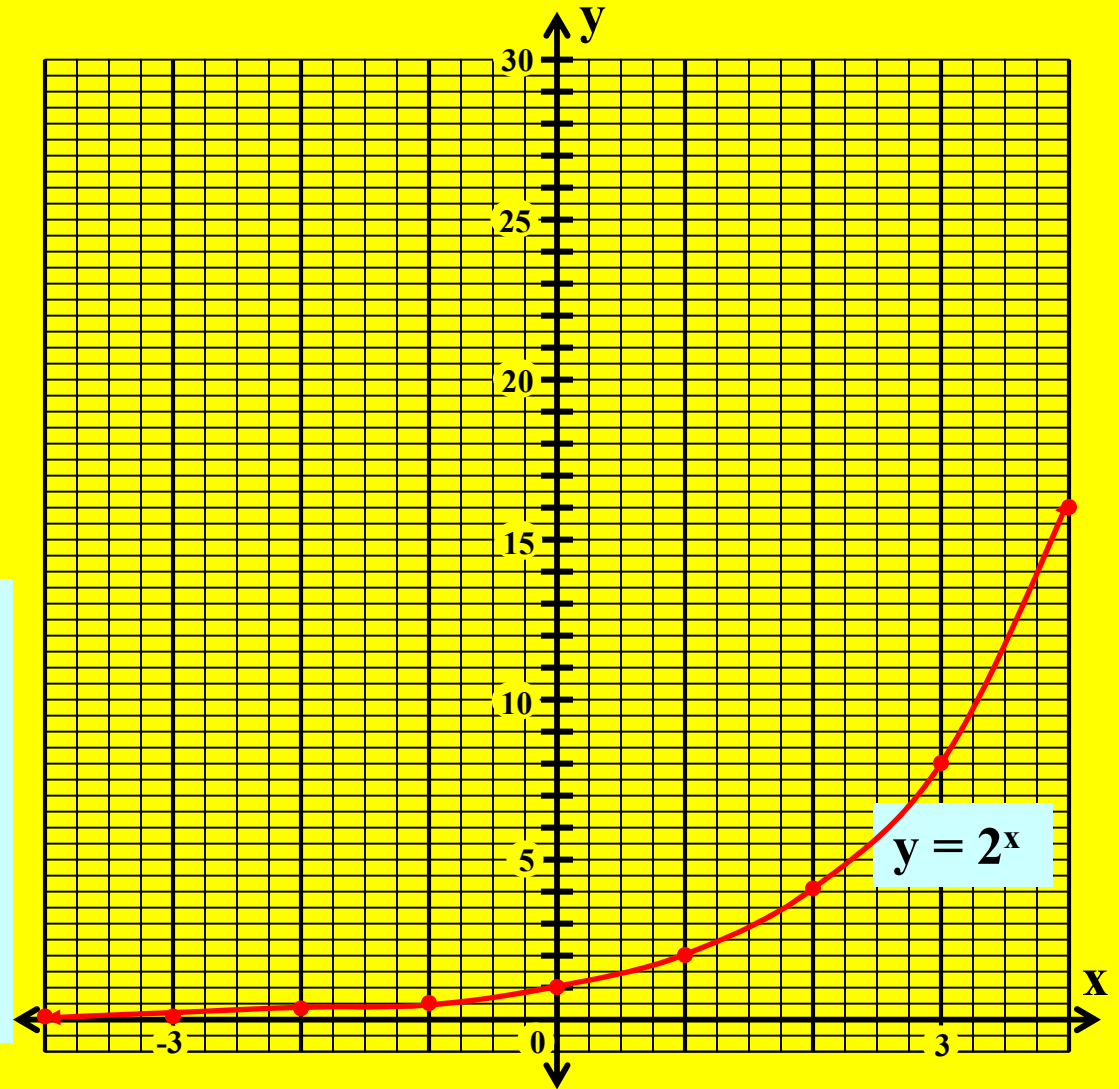
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-2	1/4
-1	1/2
0	1
1	2
2	4
3	8
4	16

This function illustrates exponential growth.



## Algebra II Class Worksheet #3 Unit 10

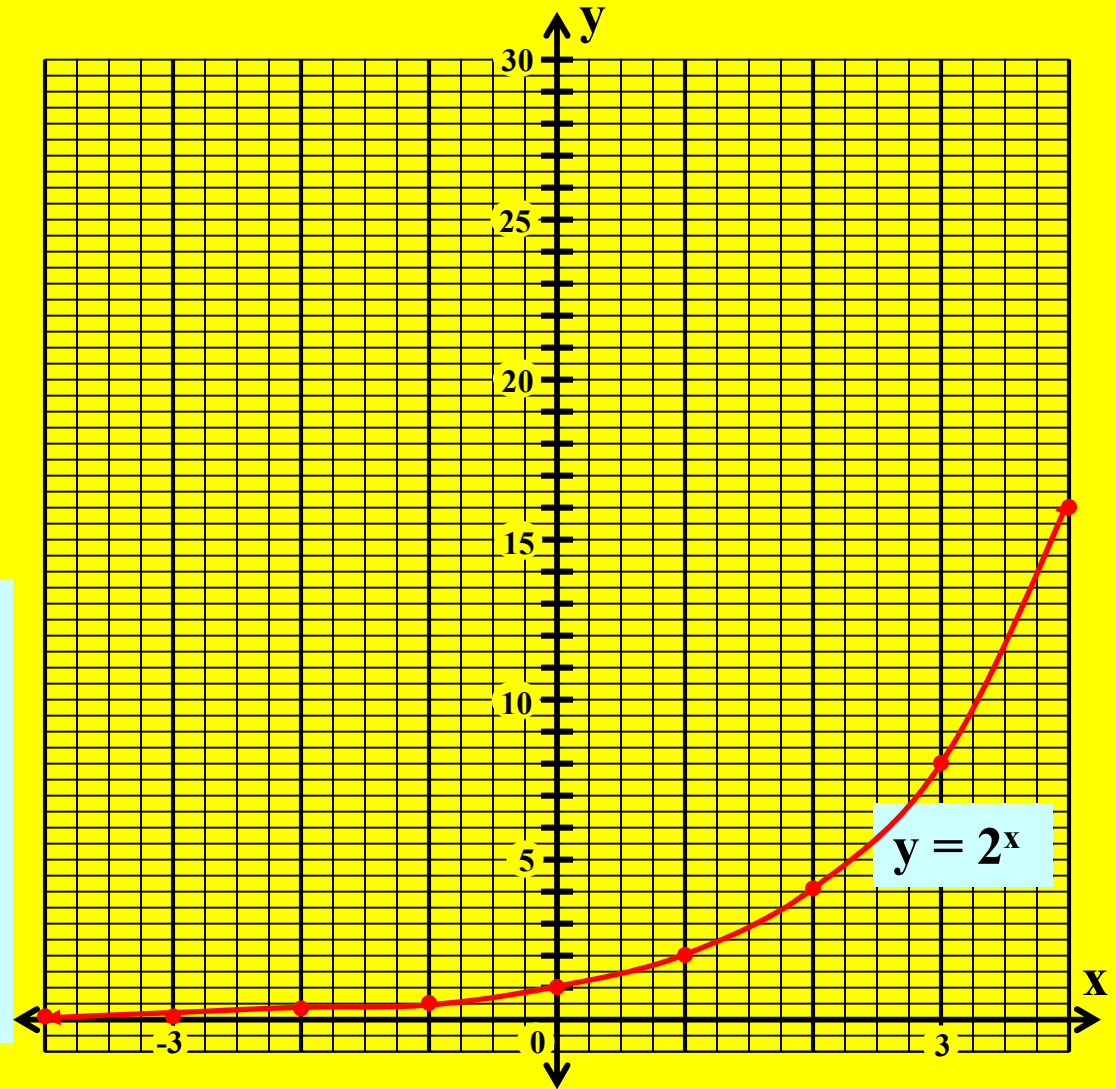
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-3	1/8
-2	1/4
-1	1/2
0	1
1	2
2	4
3	8
4	16

This function illustrates **exponential growth**.

In this case, the value of y 'doubles' for each one unit increase of x.



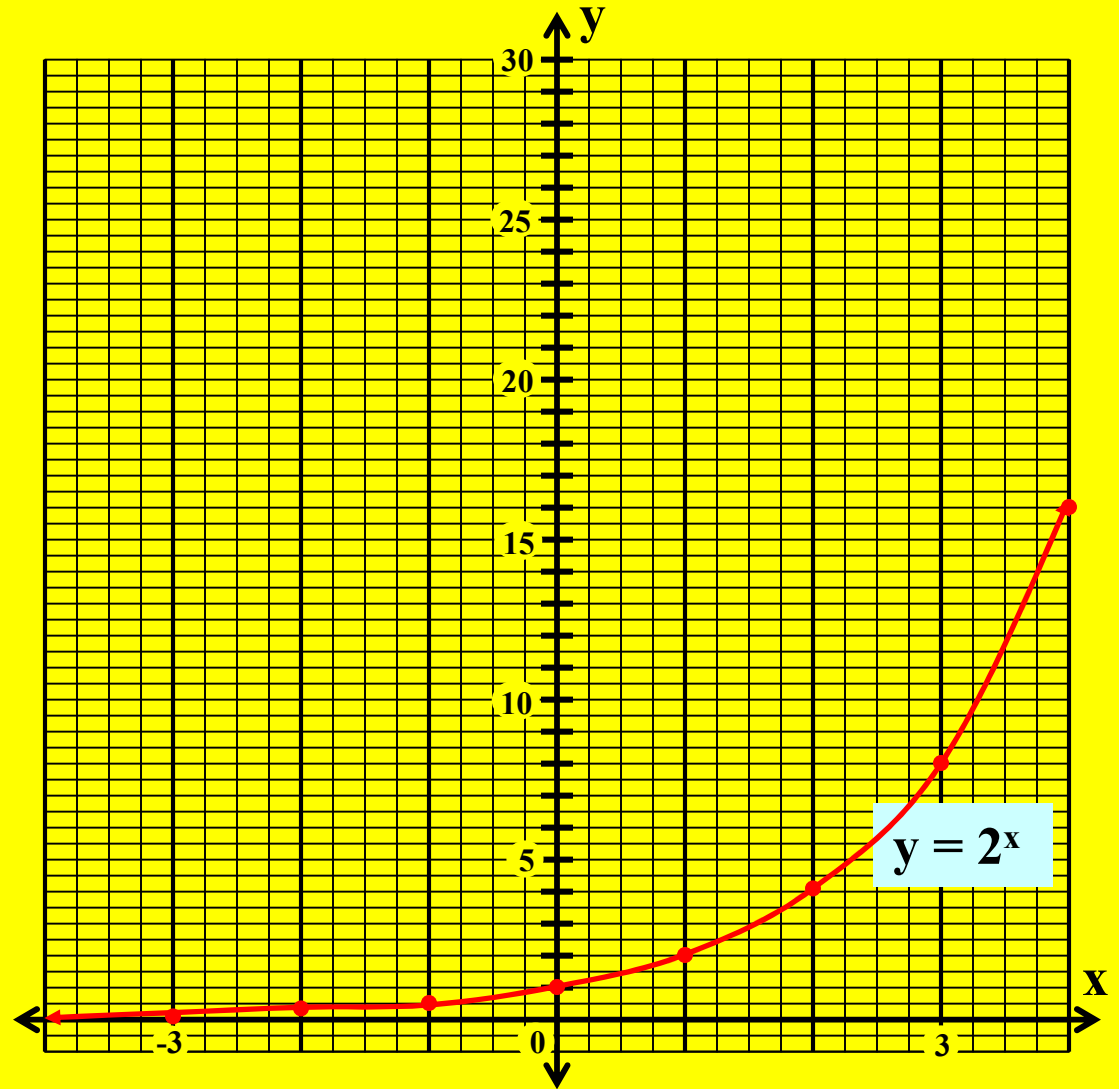


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-2	1/4
-1	1/2
0	1
1	2
2	4
3	8
4	16

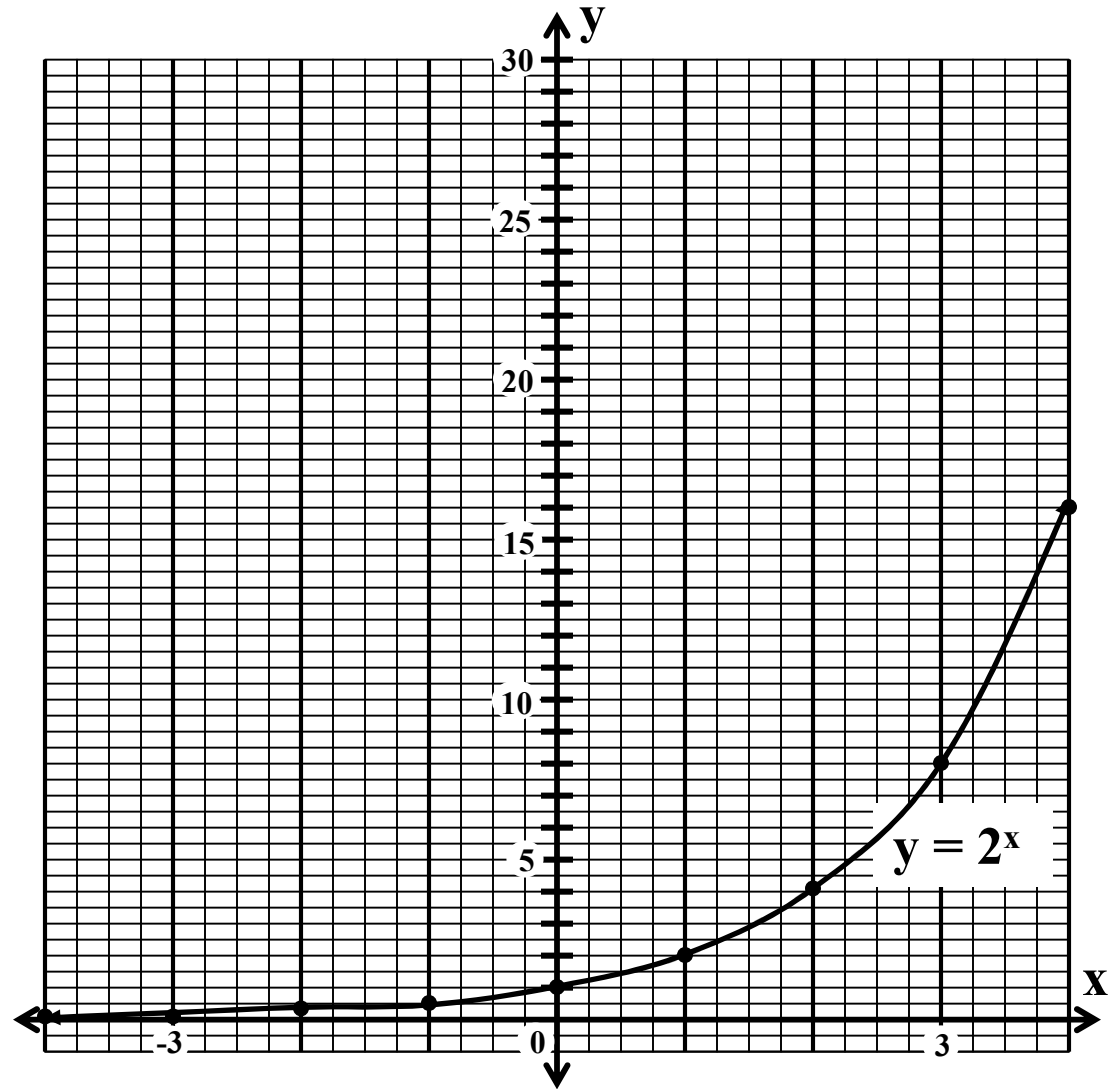


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-4	1/16
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-2	1/4
-1	1/2
0	1
1	2
2	4
3	8
4	16



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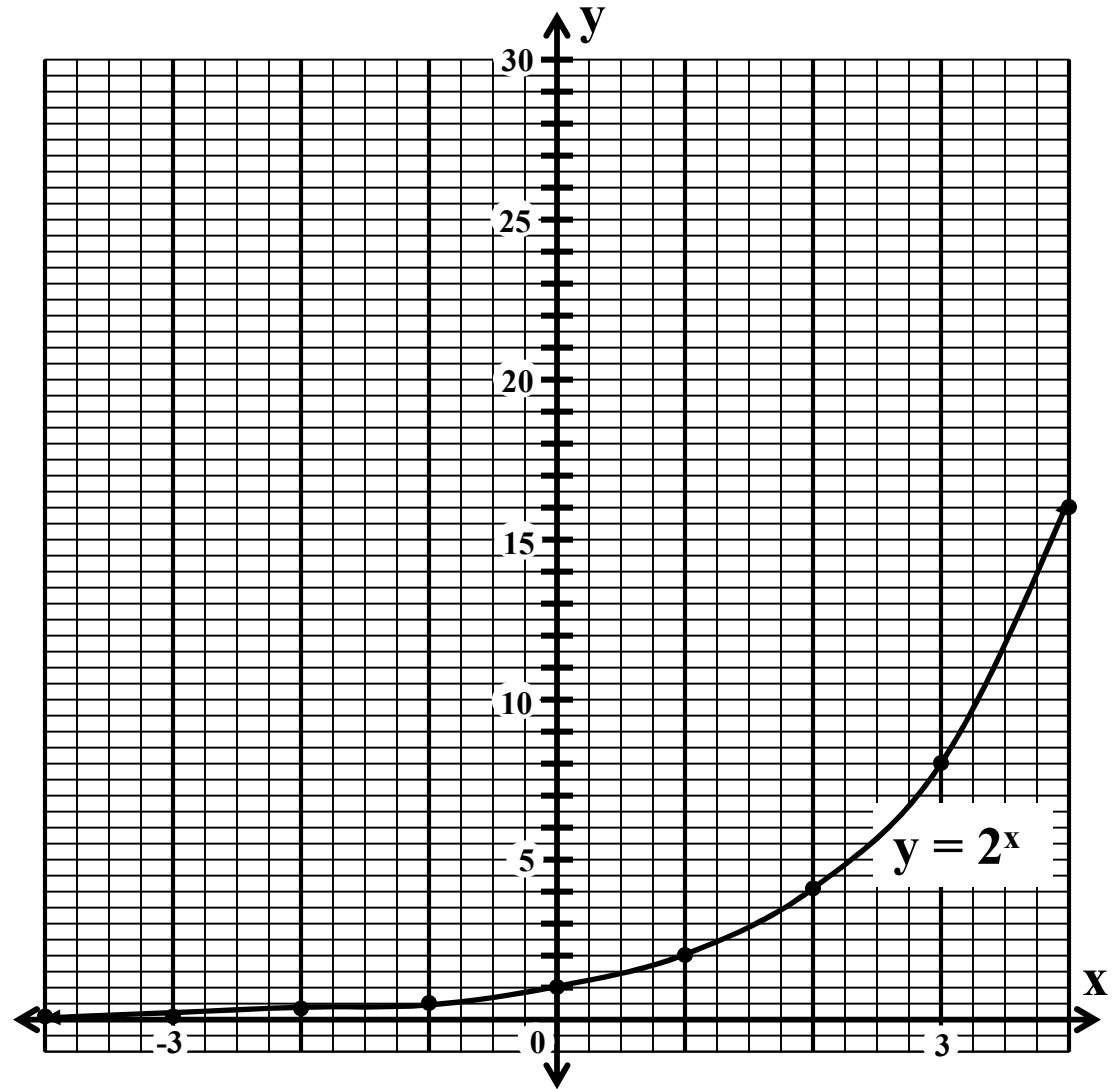
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0	1
1	2
2	4
3	8
4	16

2.  $y = 3^{-x}$

x	y
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	



## Algebra II Class Worksheet #3 Unit 10

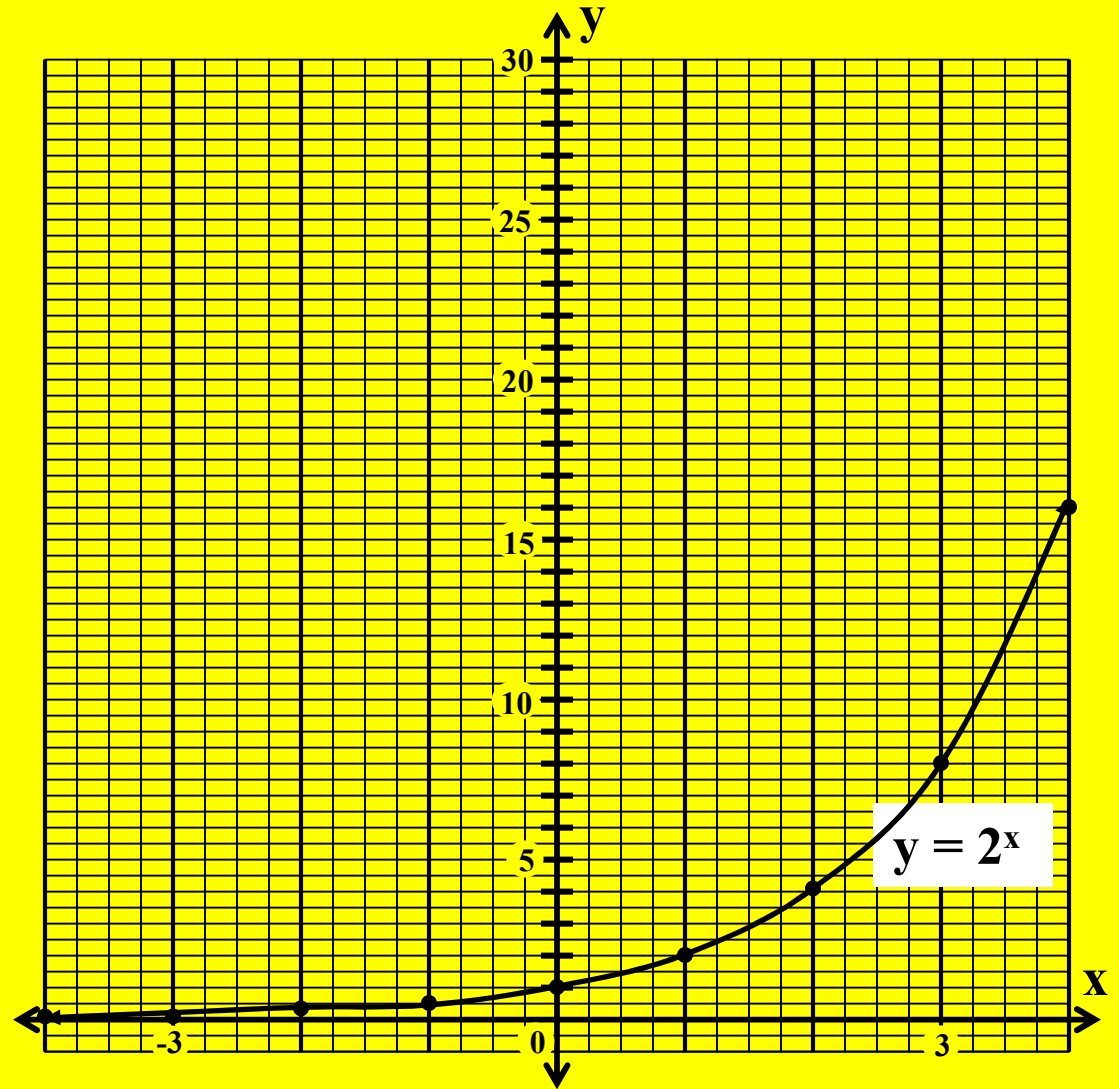
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2	4
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4	16

2.  $y = 3^{-x}$

x	y
-4	
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-2	
-1	
0	
1	
2	
3	
4	



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Sketch a graph of each of the following.

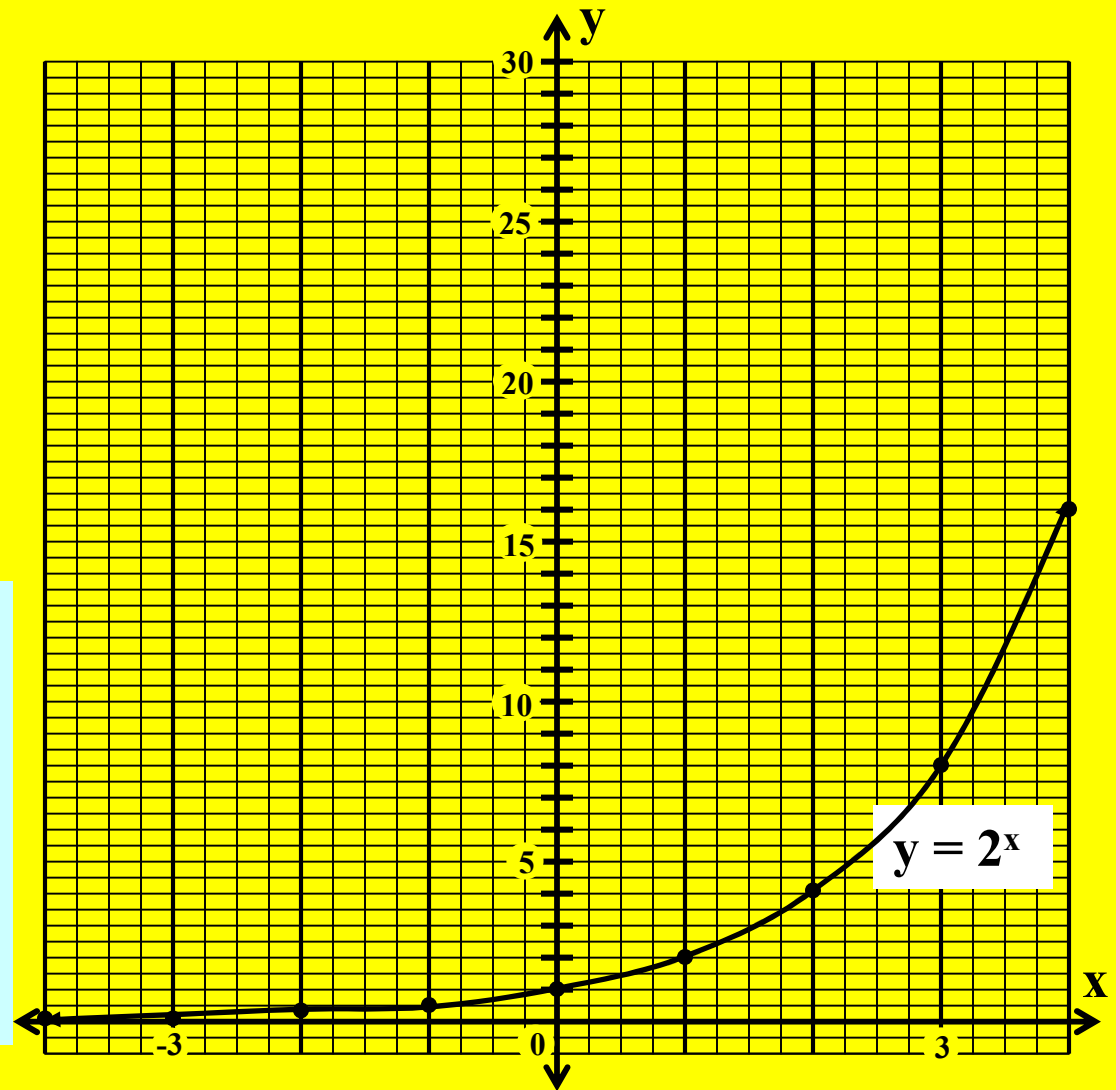
1.  $y = 2^x$

x	y
-4	1/16
-3	1/8
-2	1/4
-1	1/2
0	1
1	2
2	4
3	8
4	16

2.  $y = 3^{-x}$

x	y
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	

#2 is another example of an **exponential function**.



## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

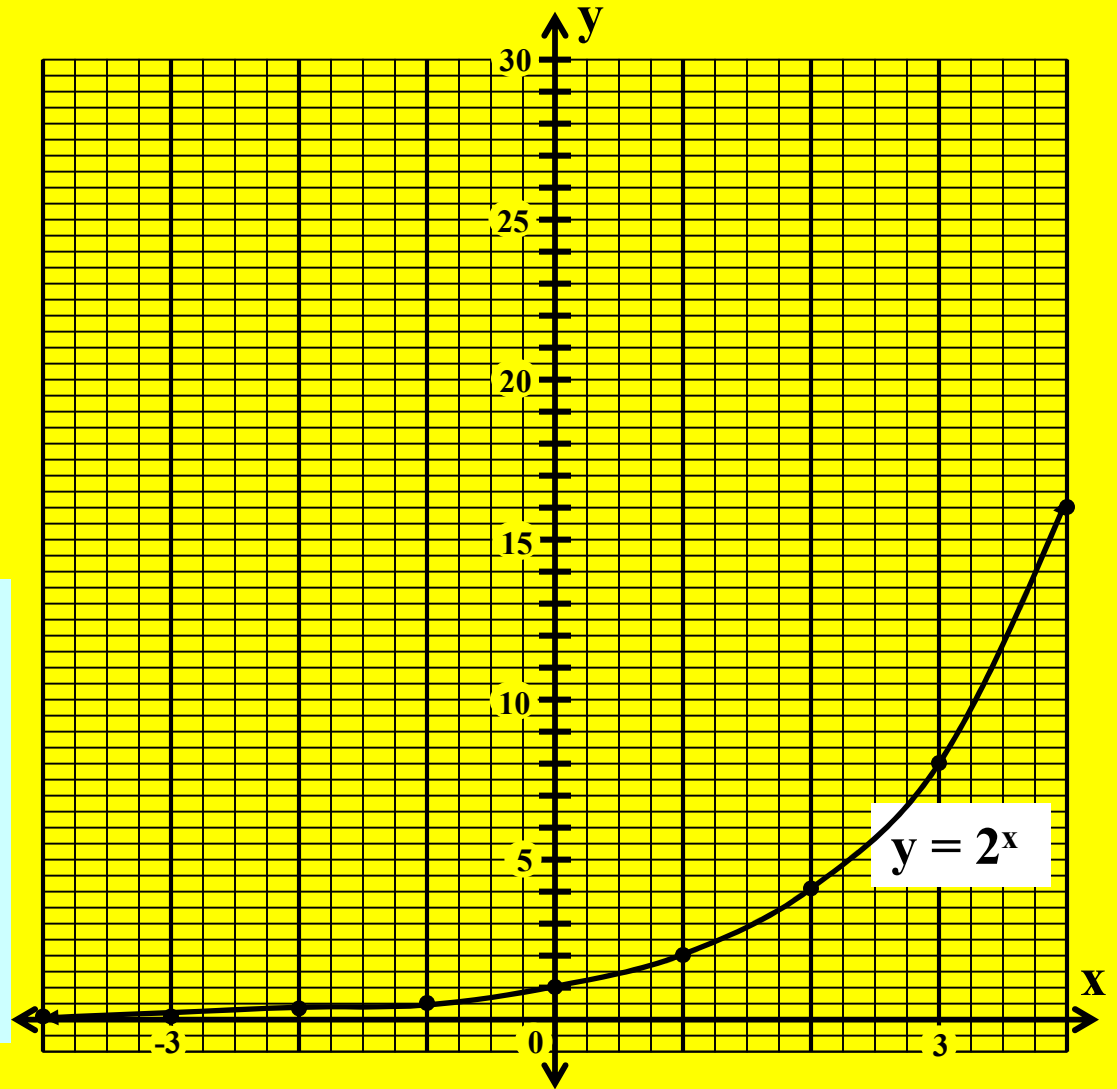
1.  $y = 2^x$

x	y
-4	1/16
-3	1/8
-2	1/4
-1	1/2
0	1
1	2
2	4
3	8
4	16

2.  $y = 3^{-x}$

x	y
-4	
-3	
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-1	
0	
1	
2	
3	
4	

#2 is another example of an **exponential function**. We will fill out the table, plot the points, and then 'connect the dots'.



## Algebra II Class Worksheet #3 Unit 10

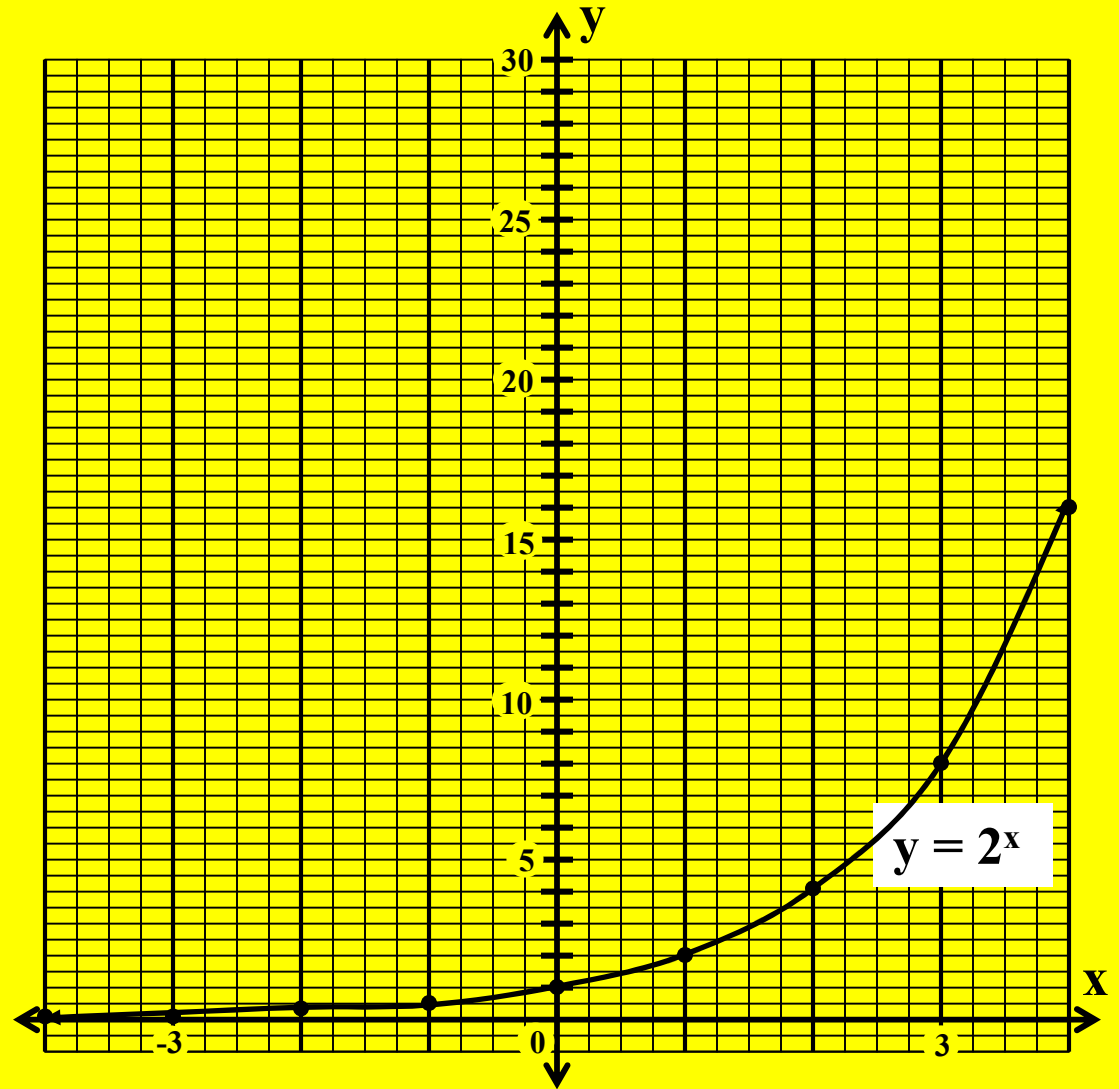
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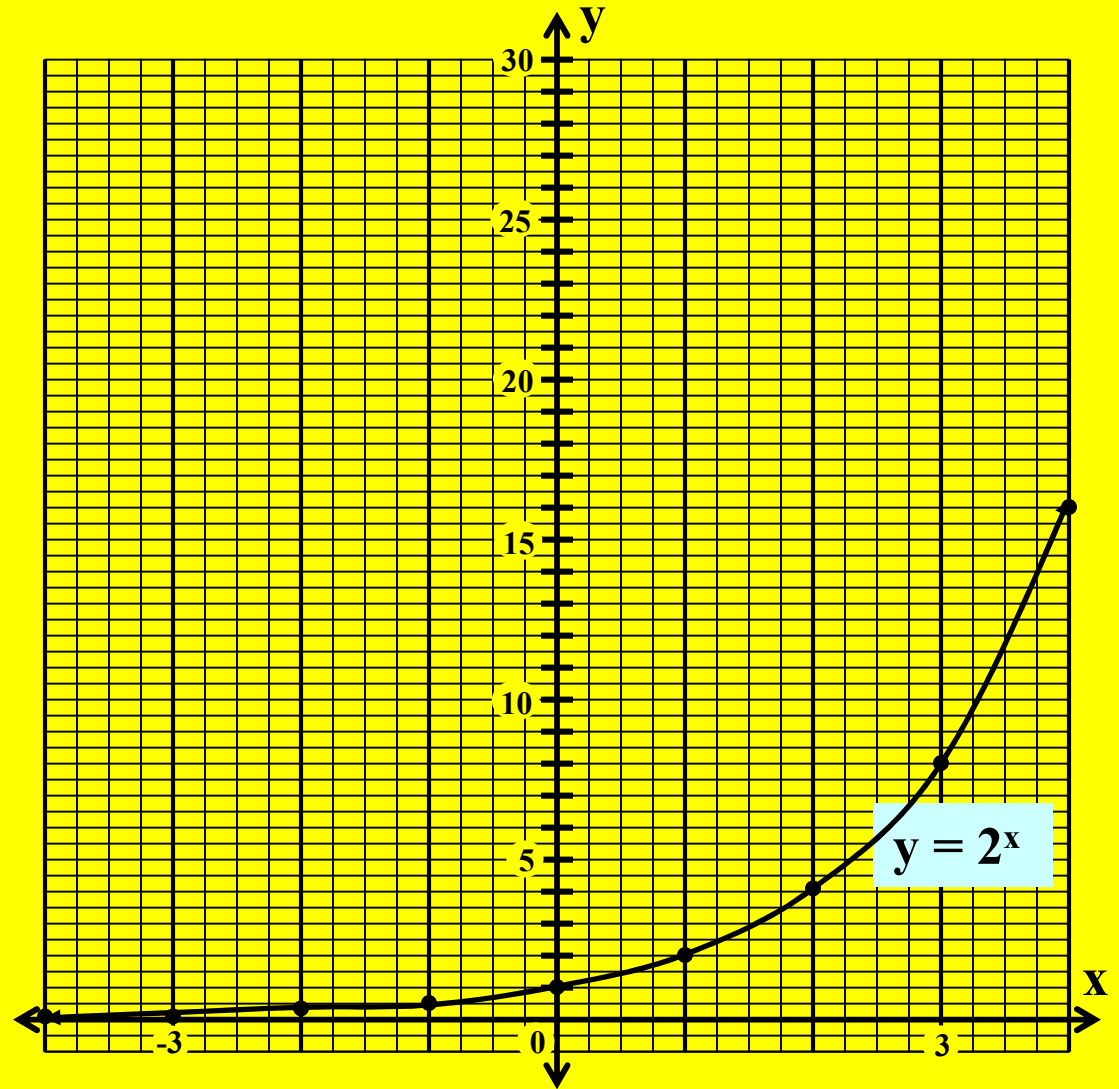
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3	1/27
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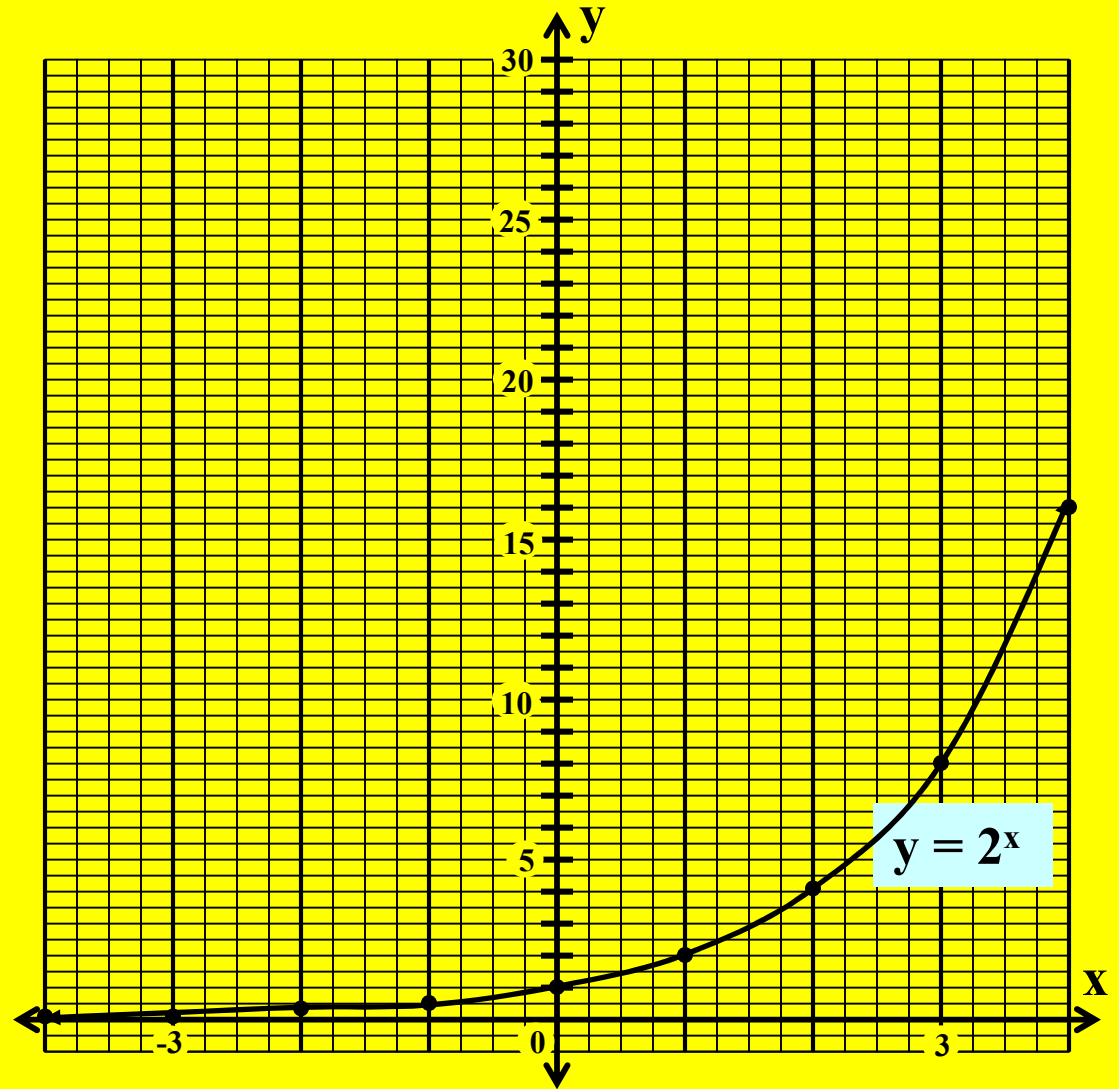
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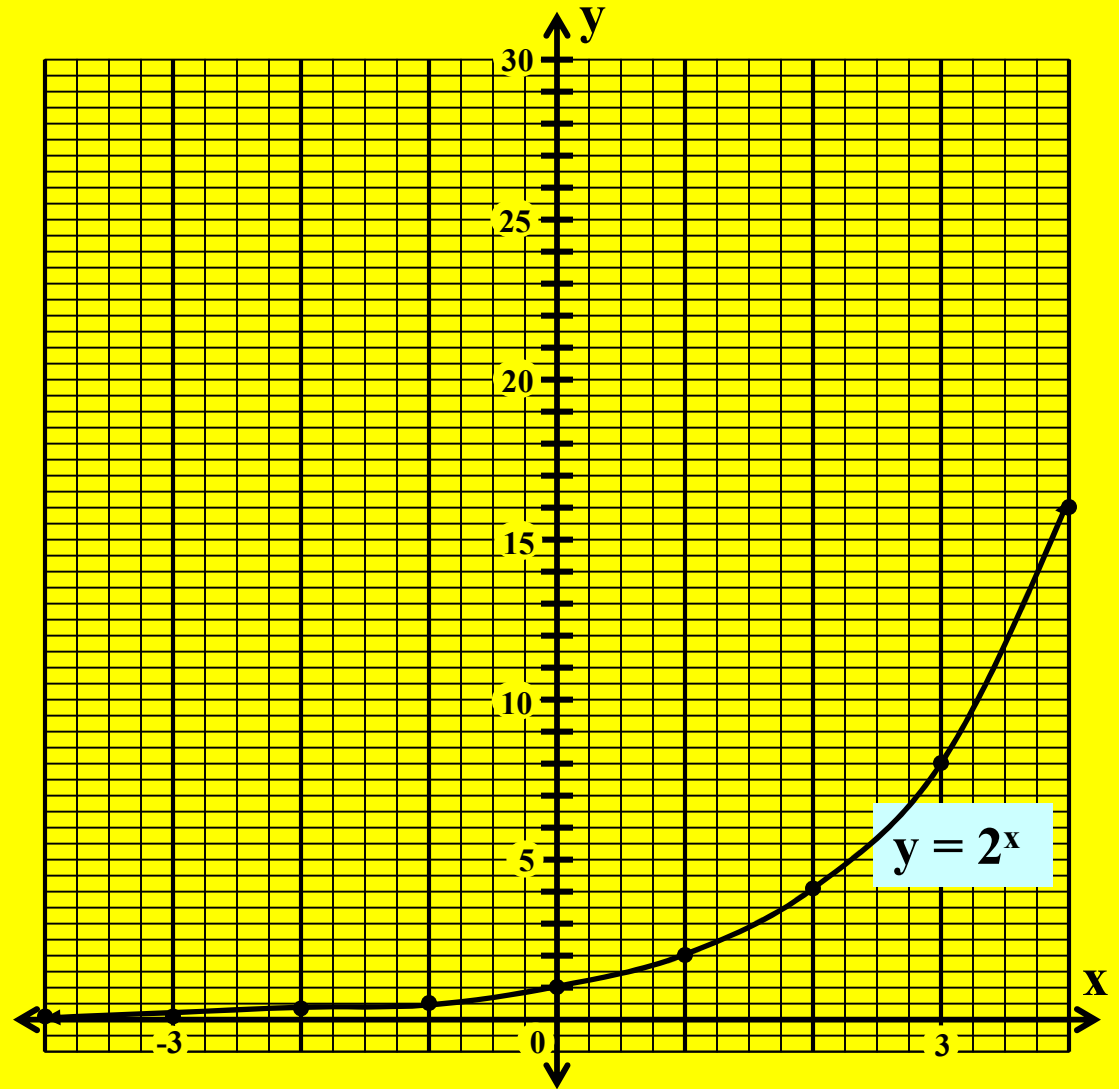
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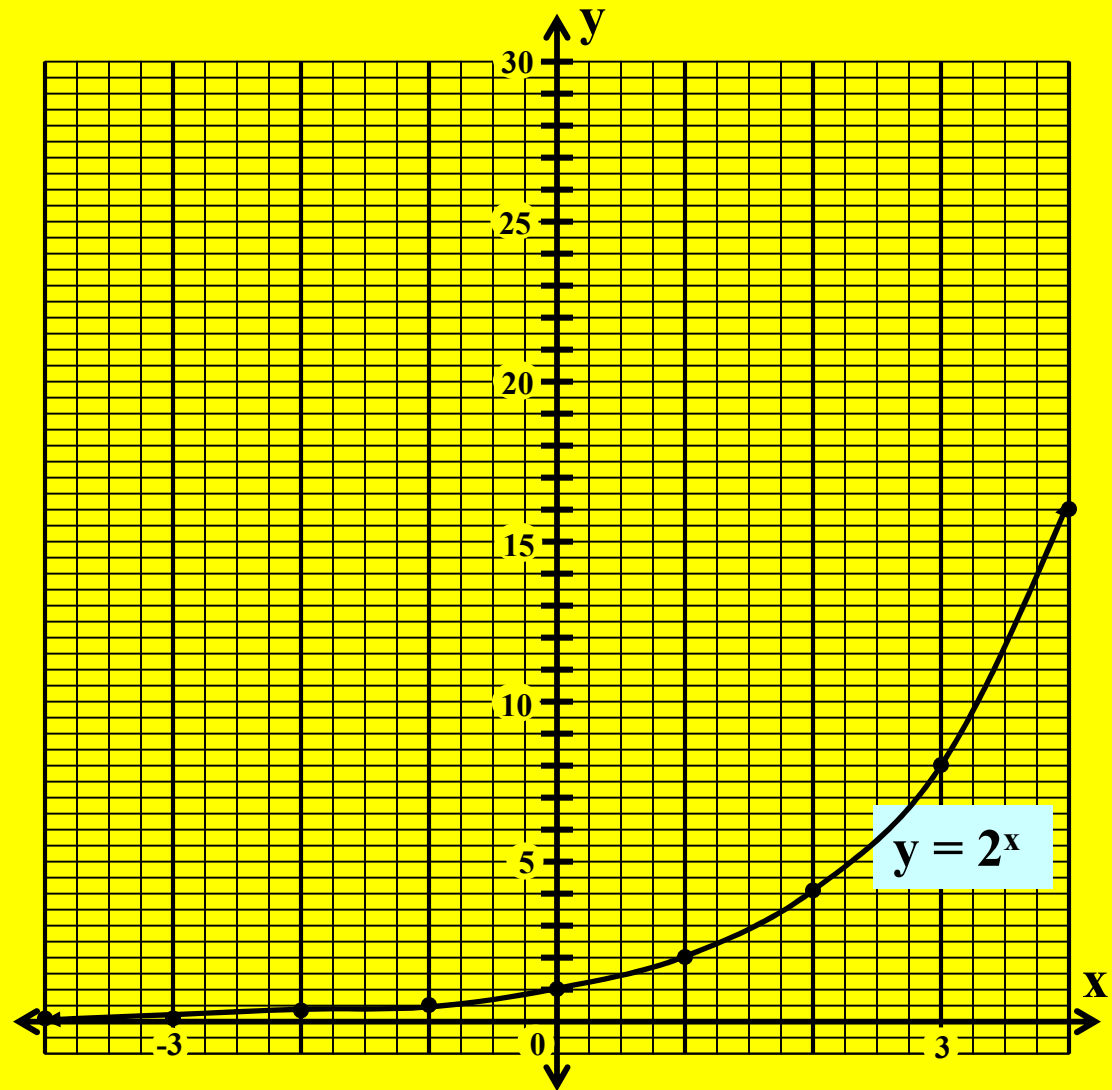
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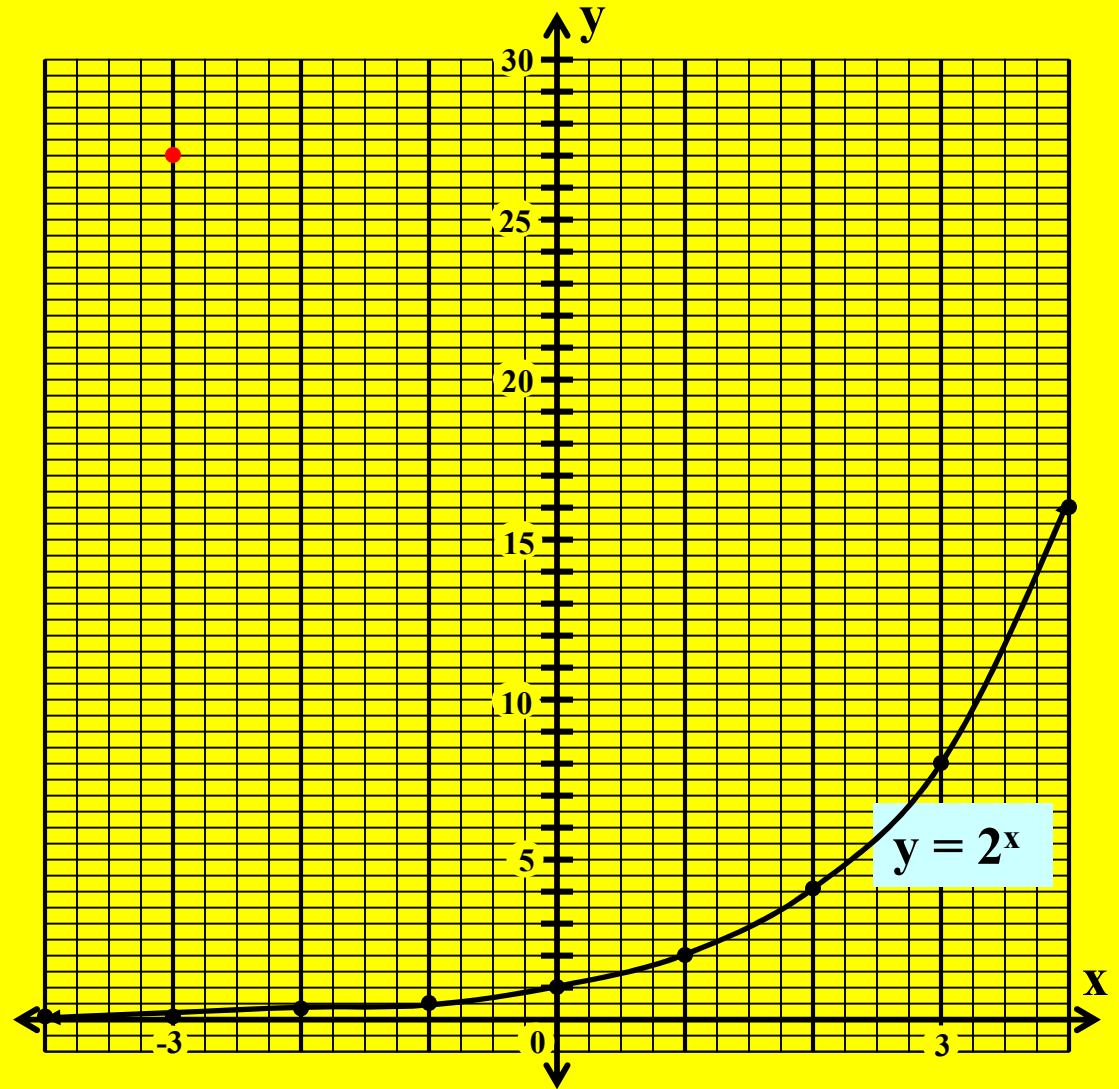
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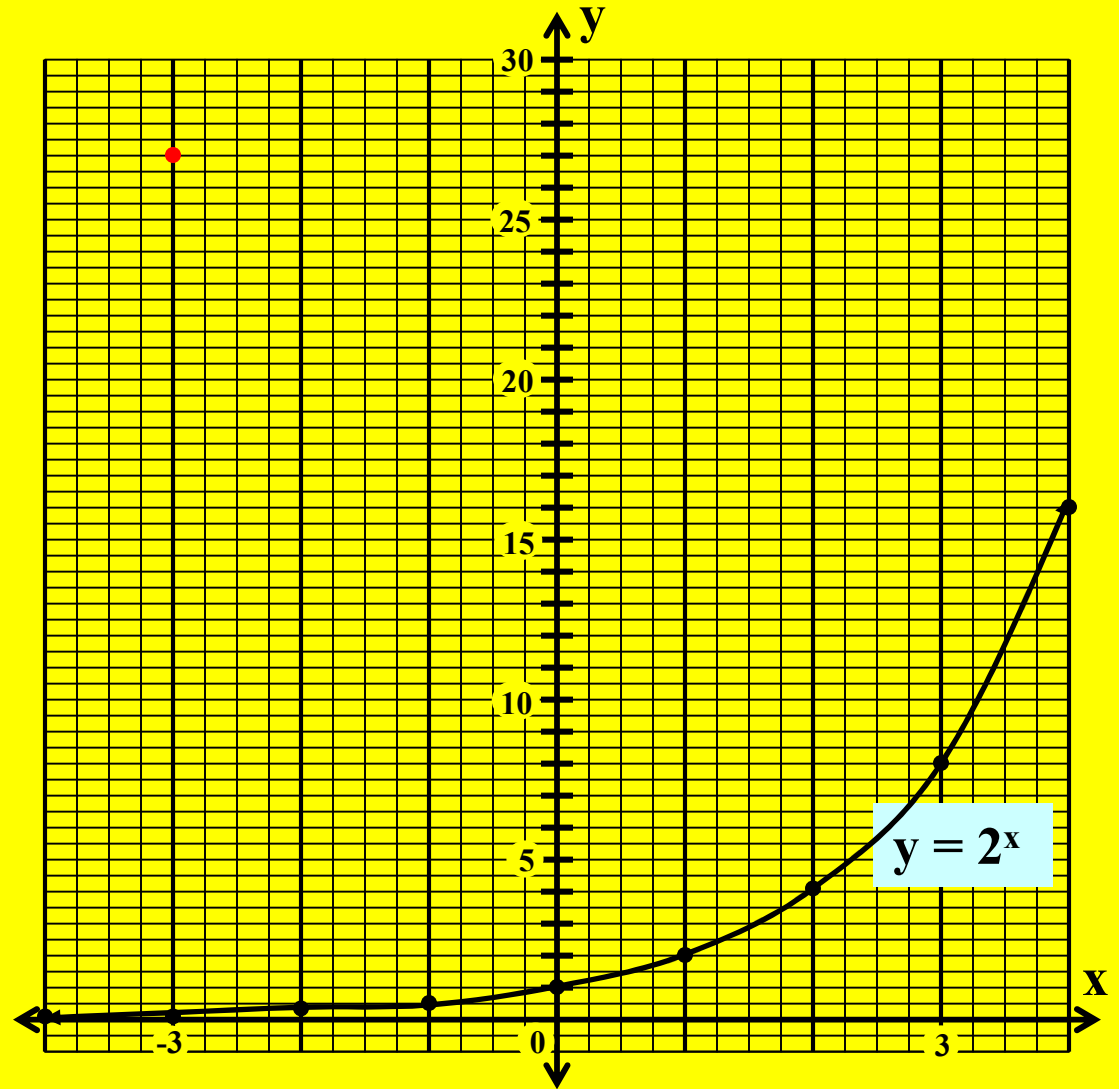
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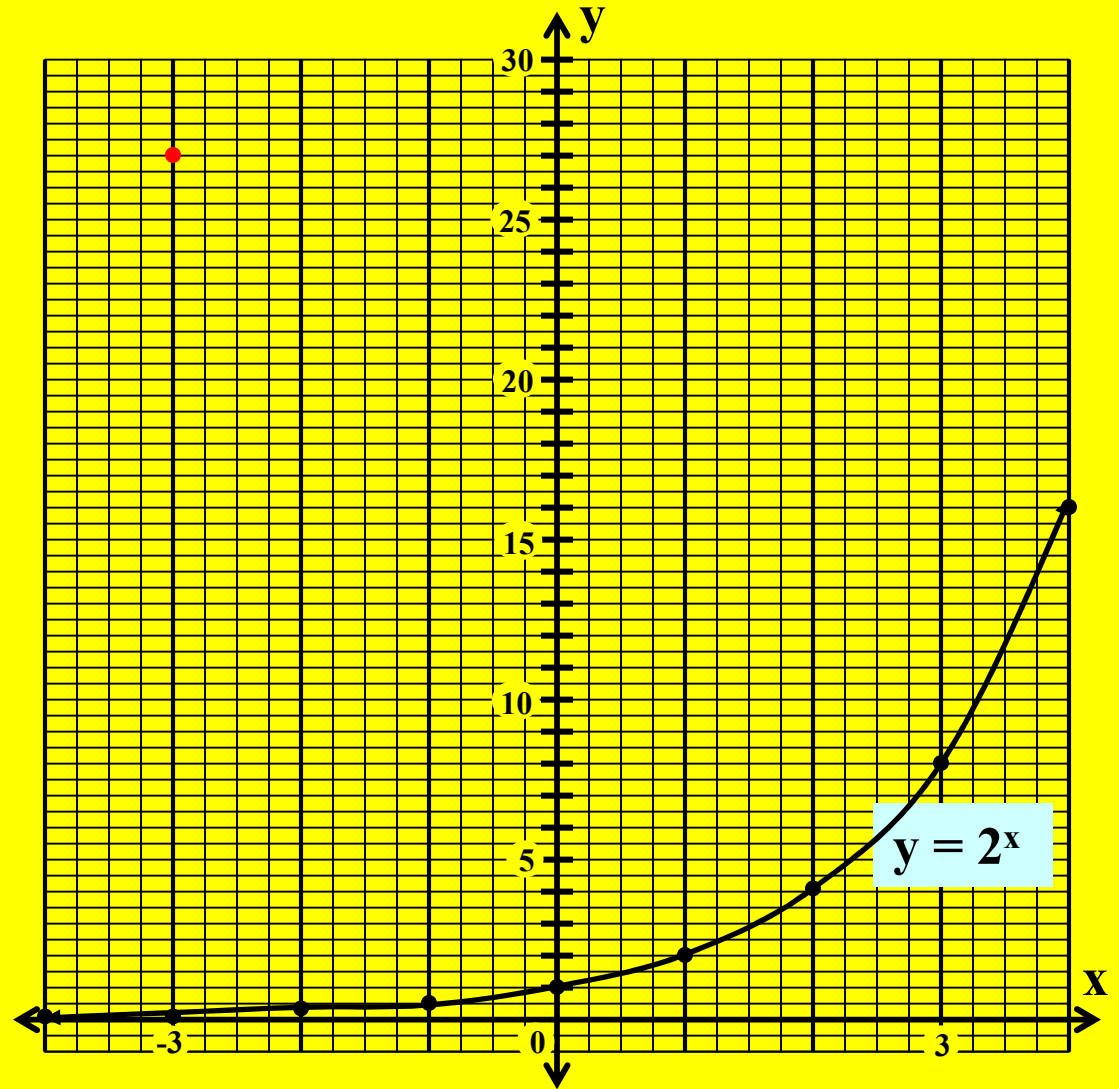
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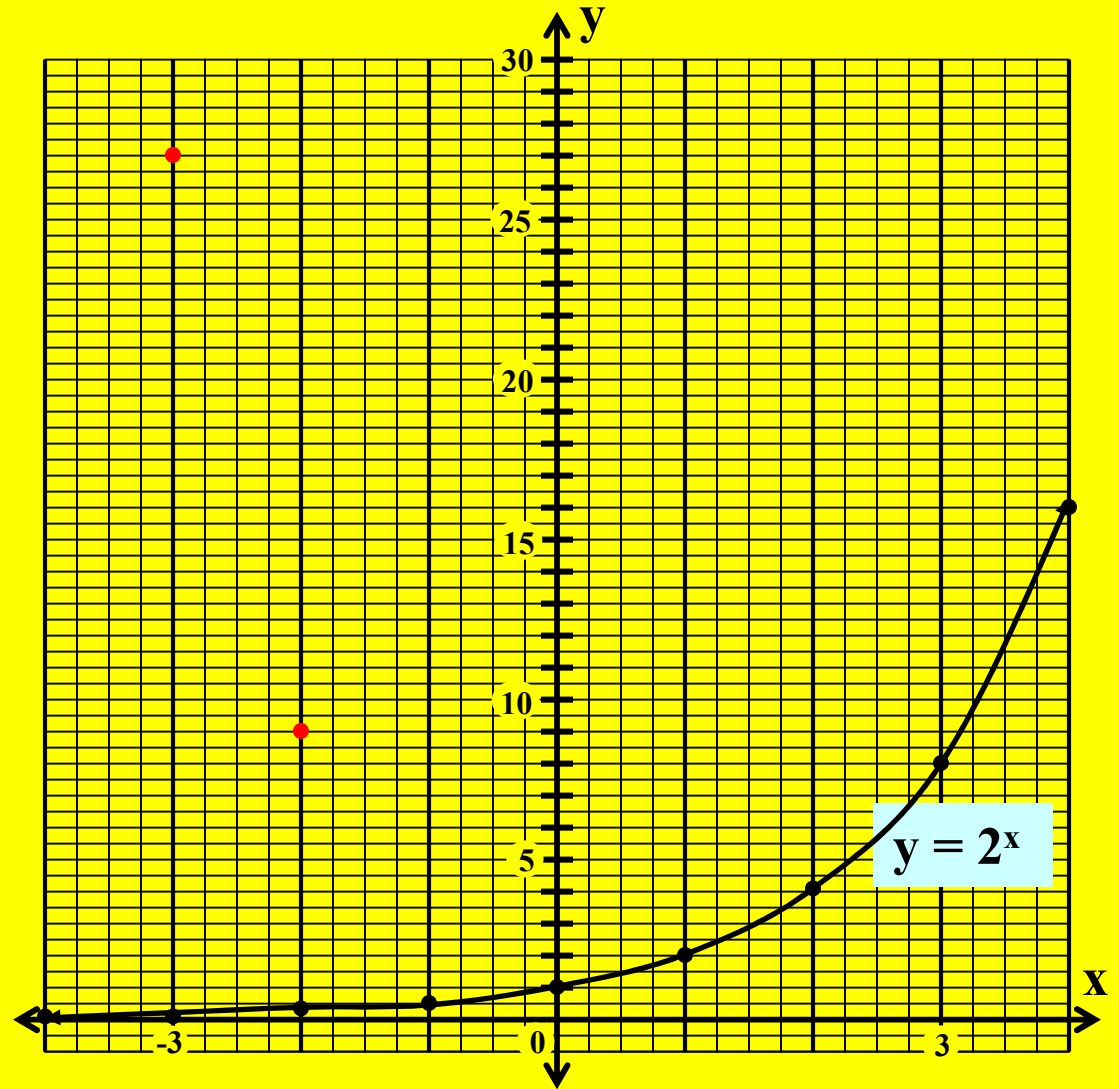
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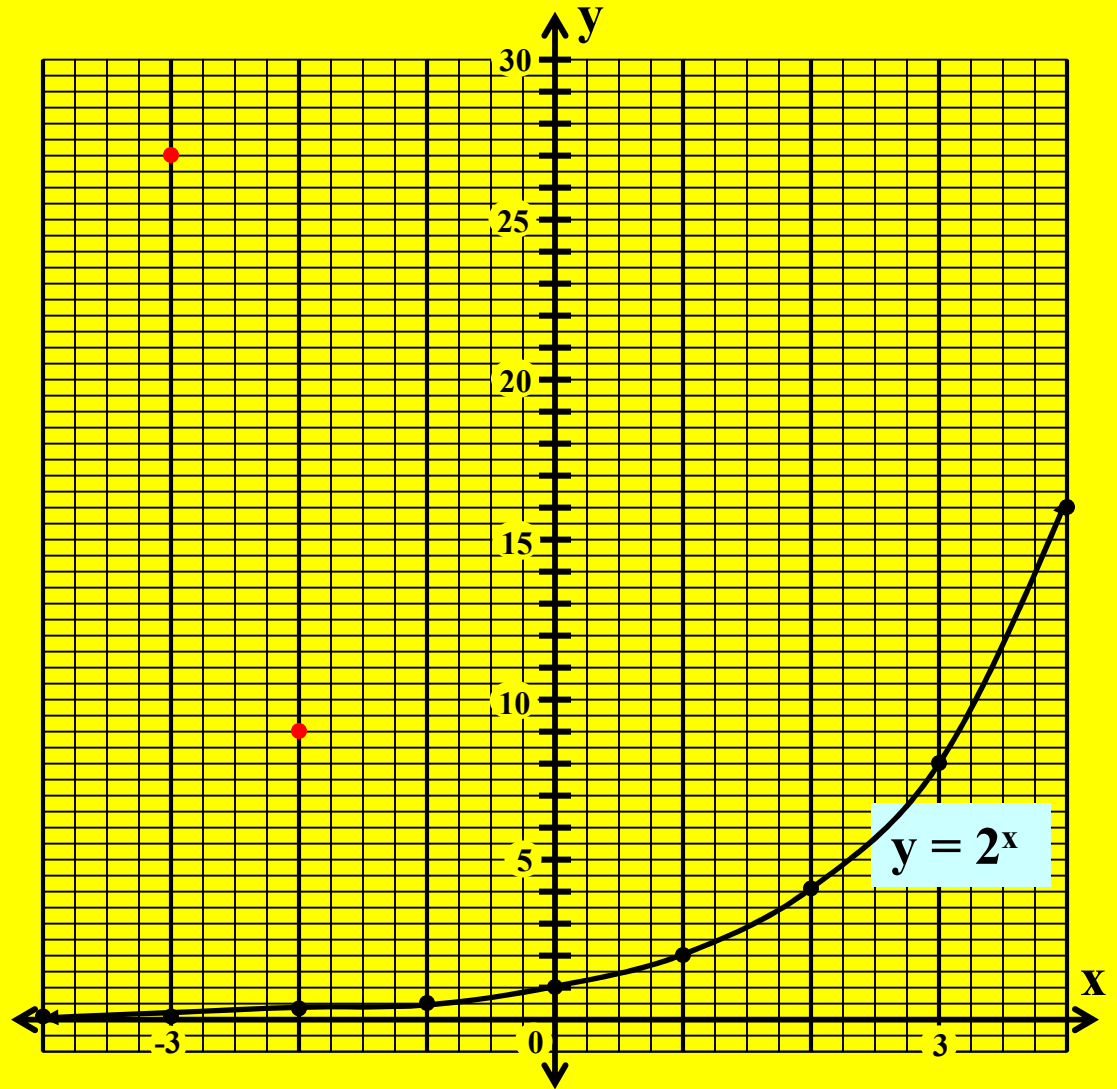
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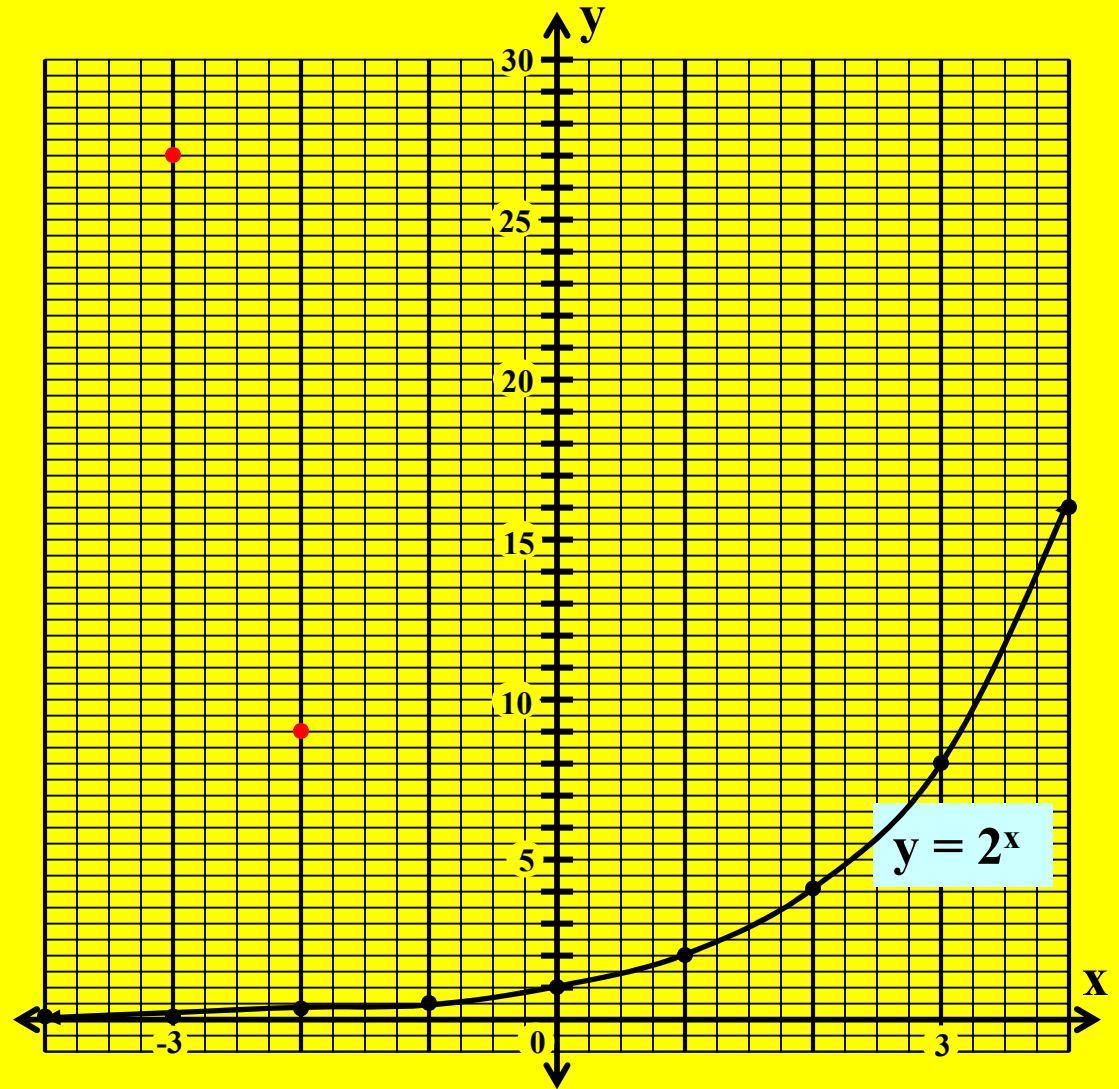
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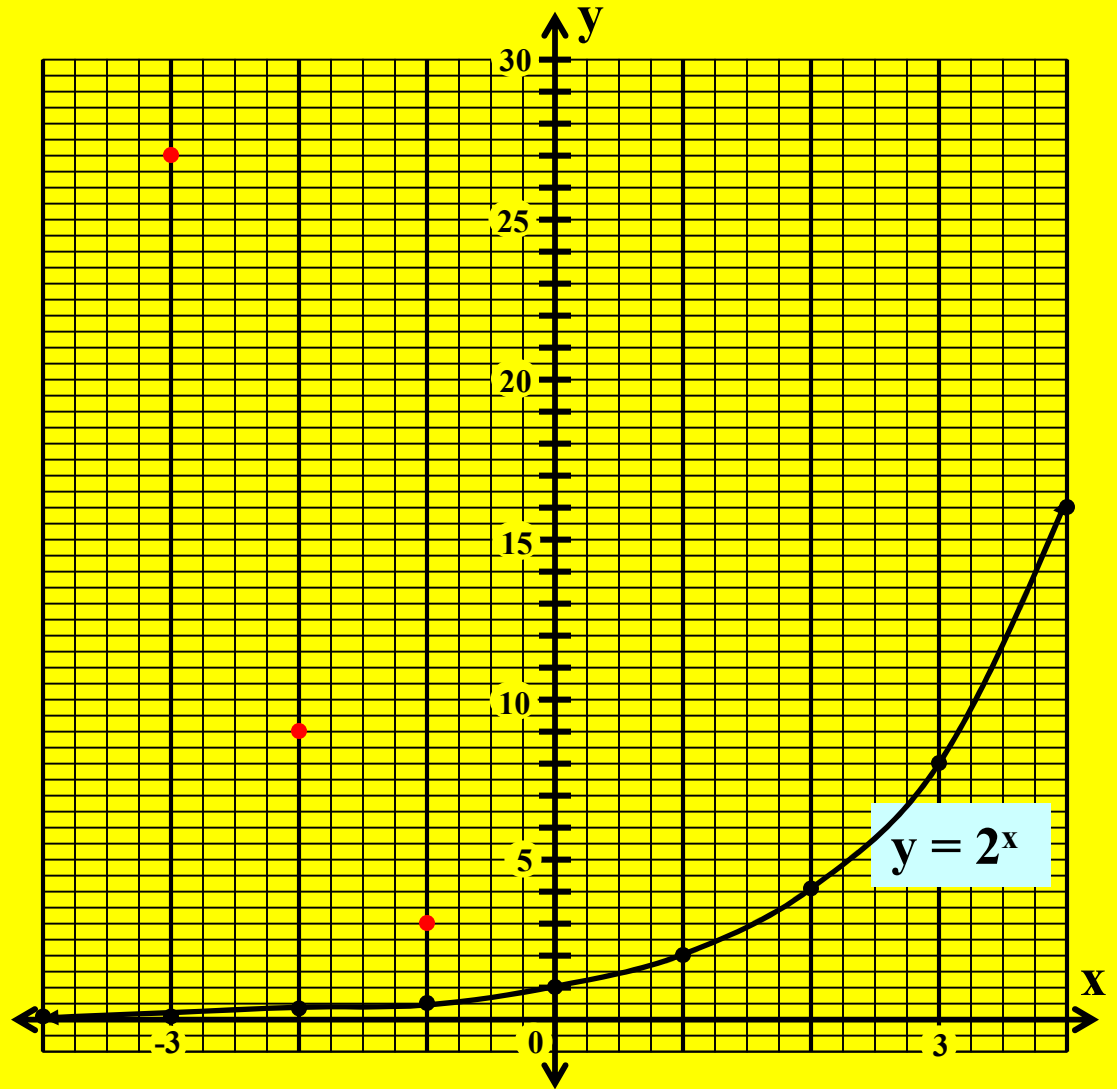
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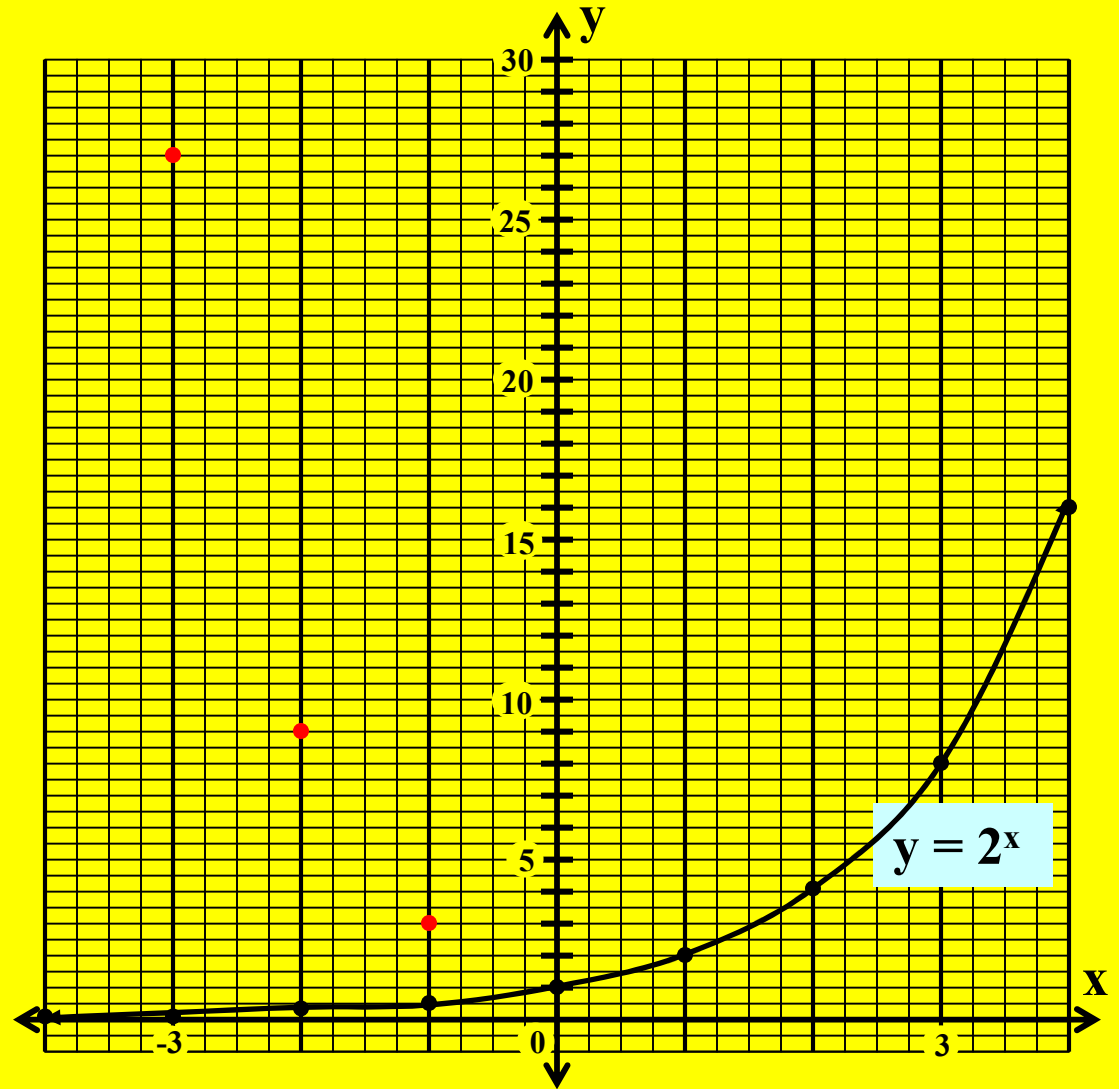
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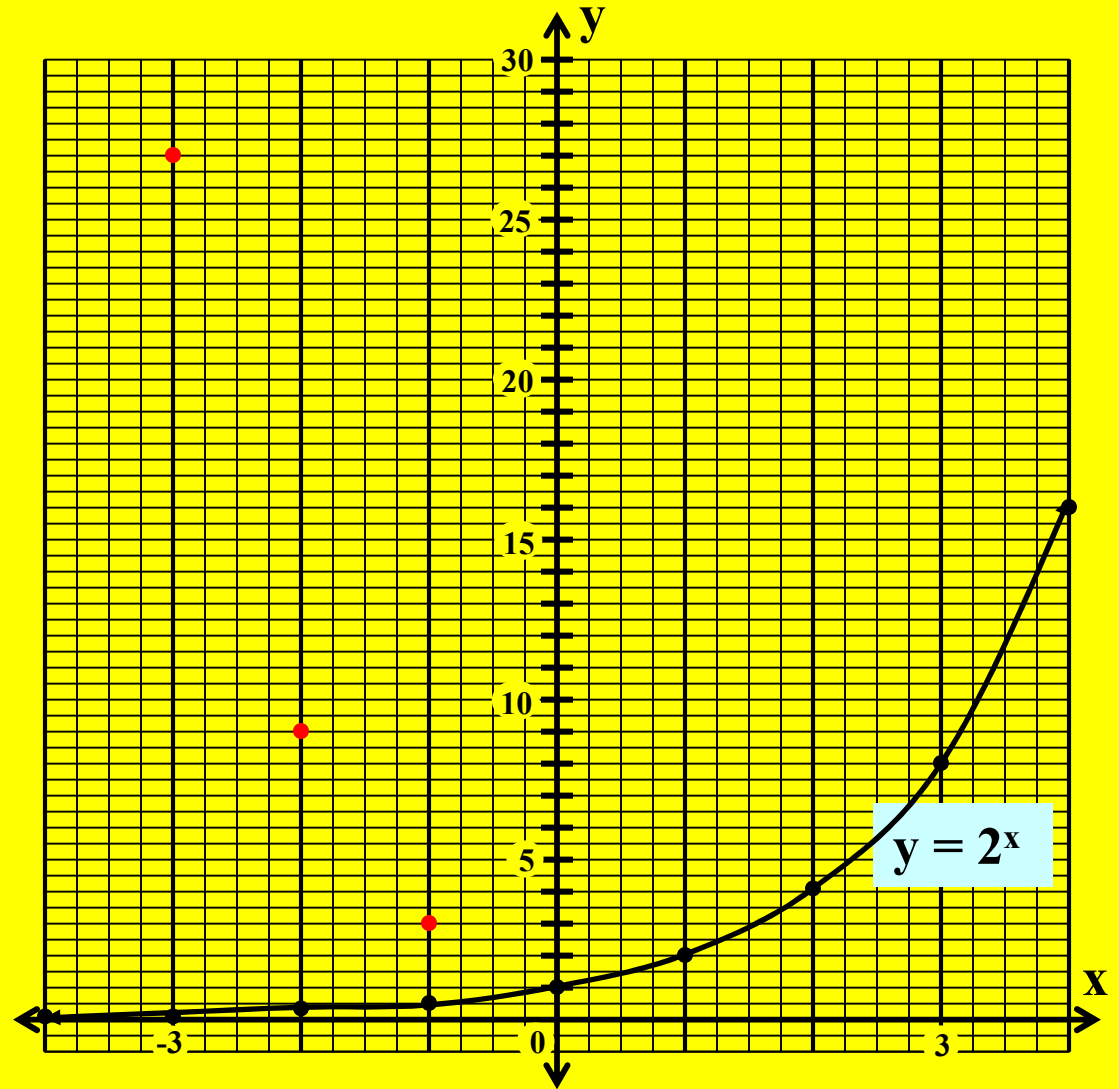
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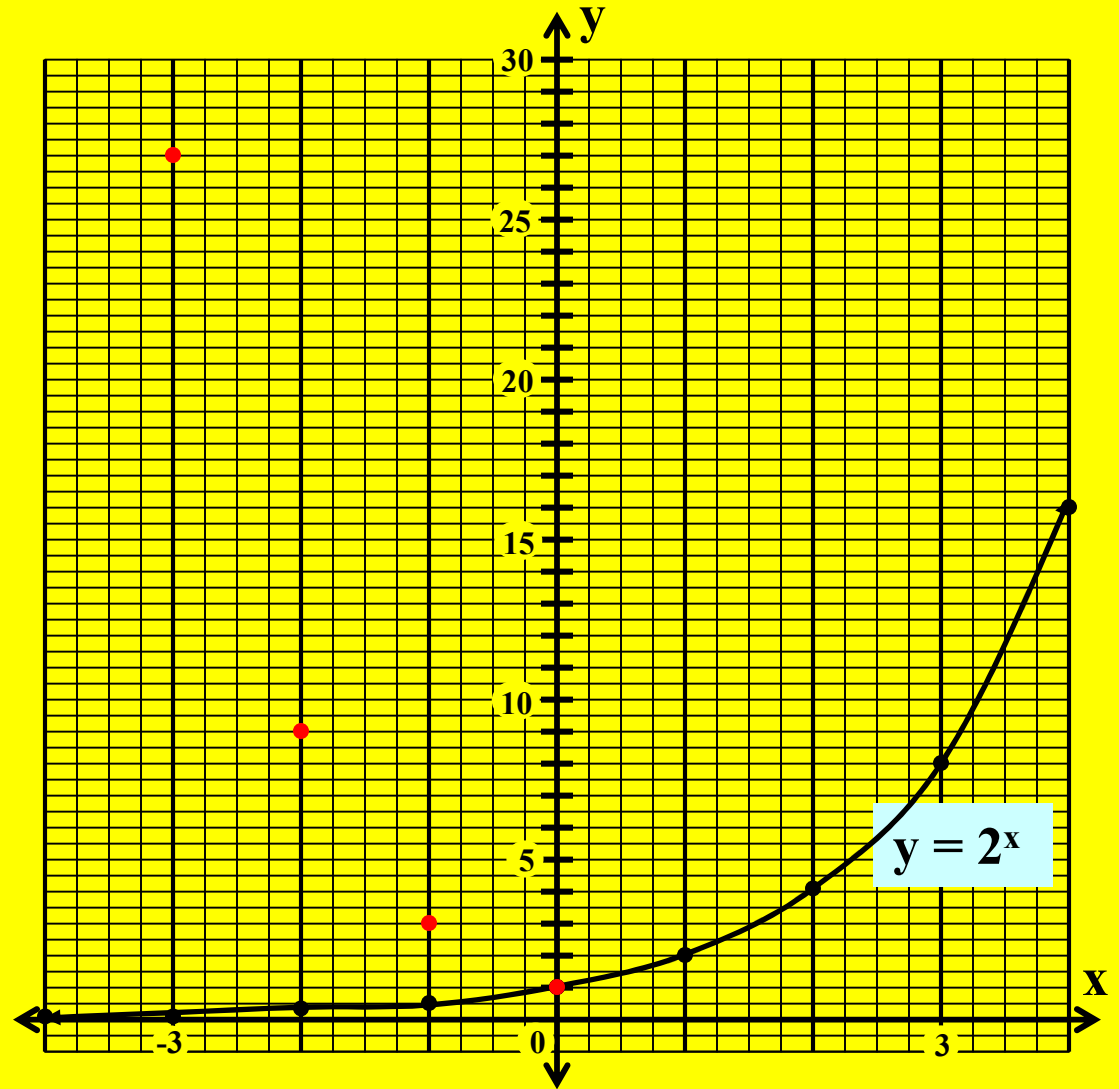
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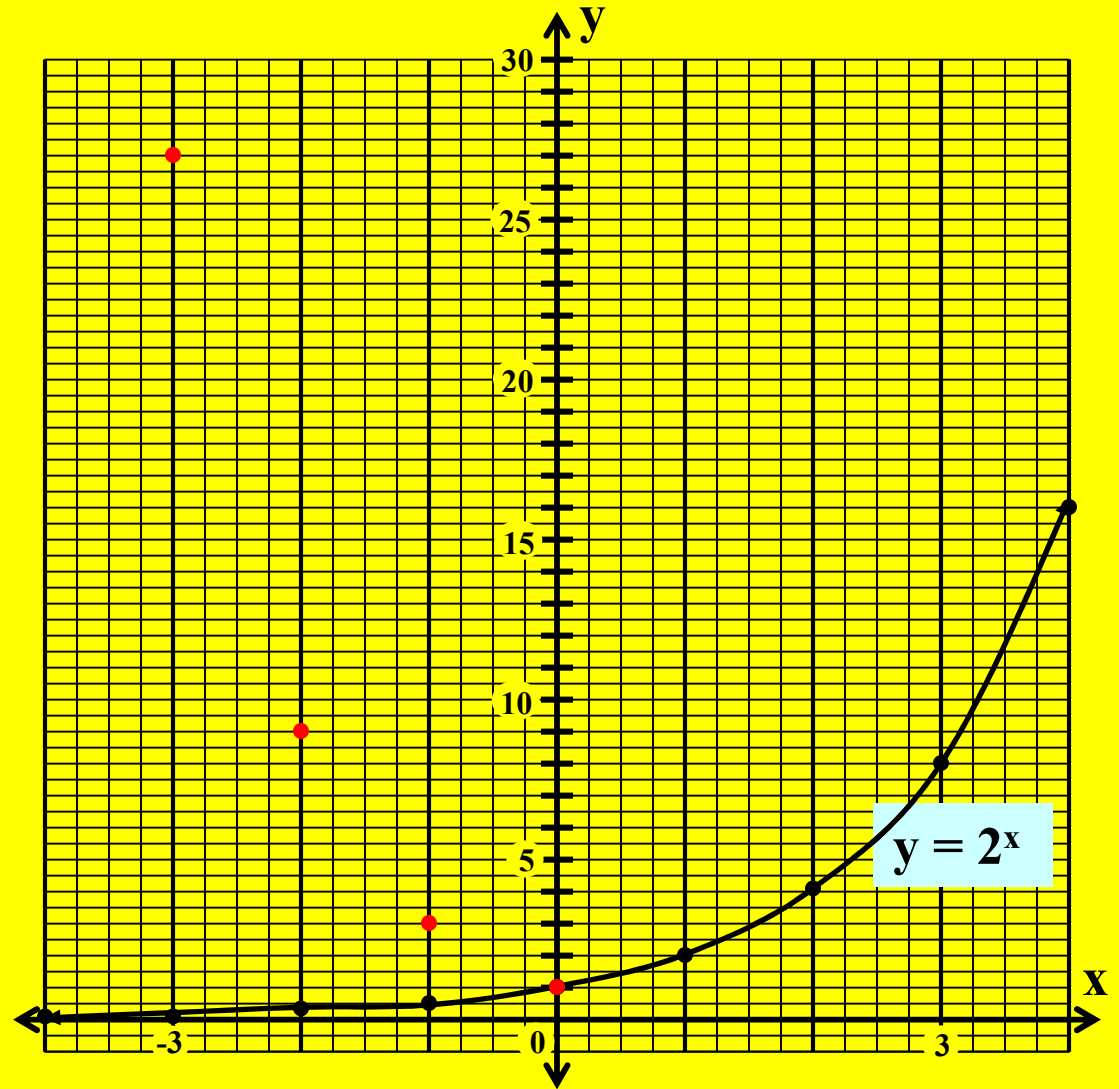
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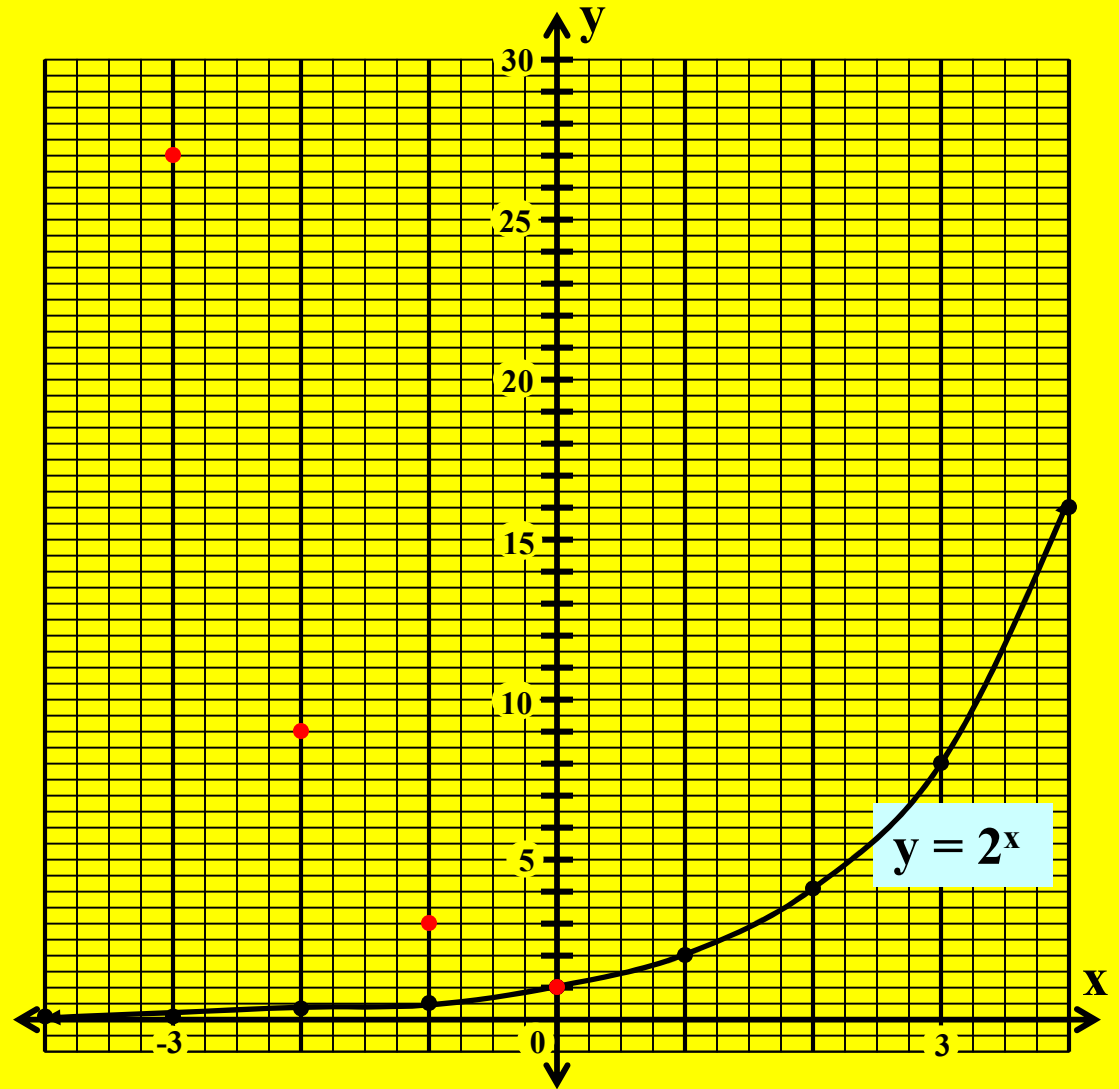
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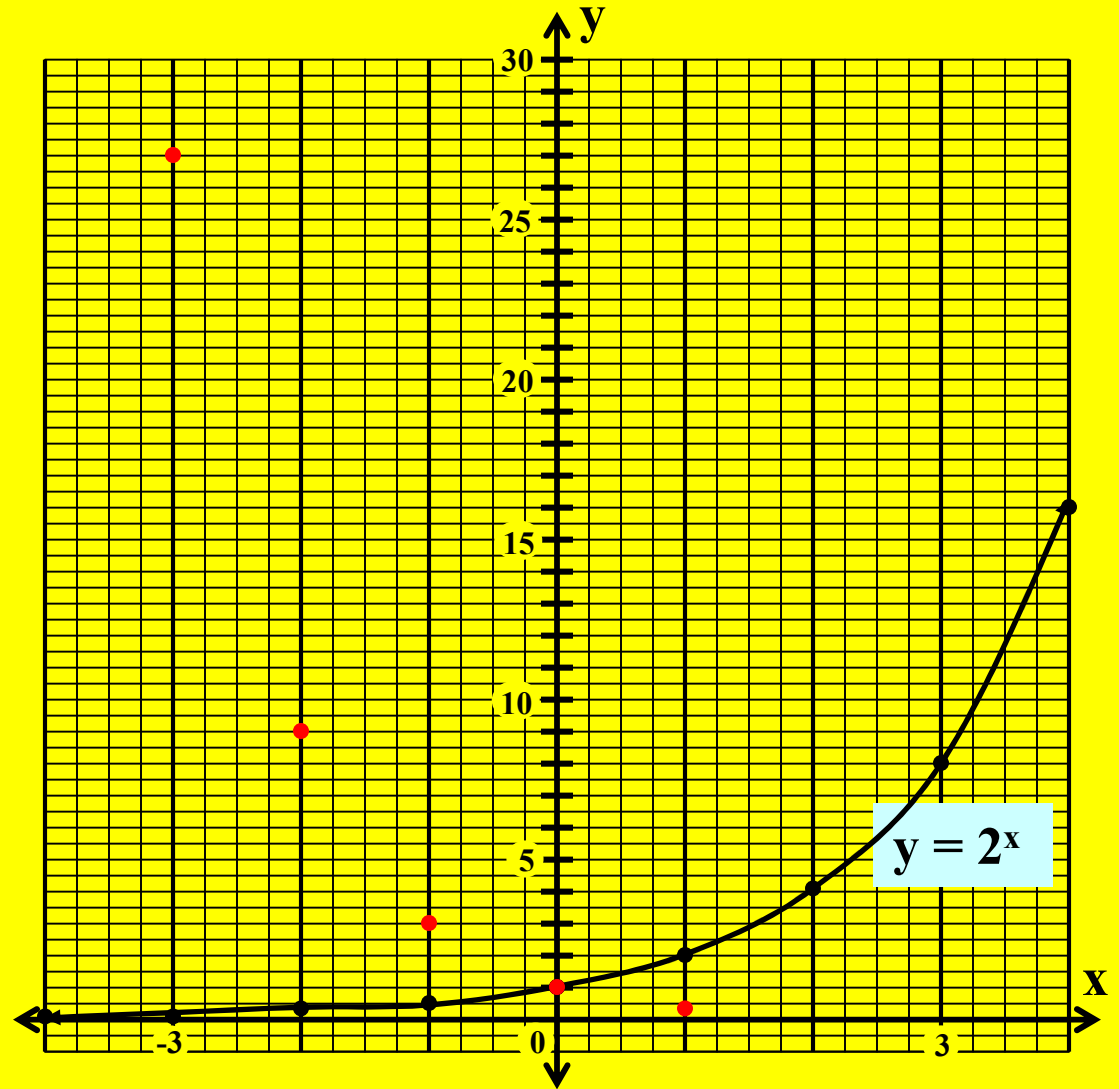
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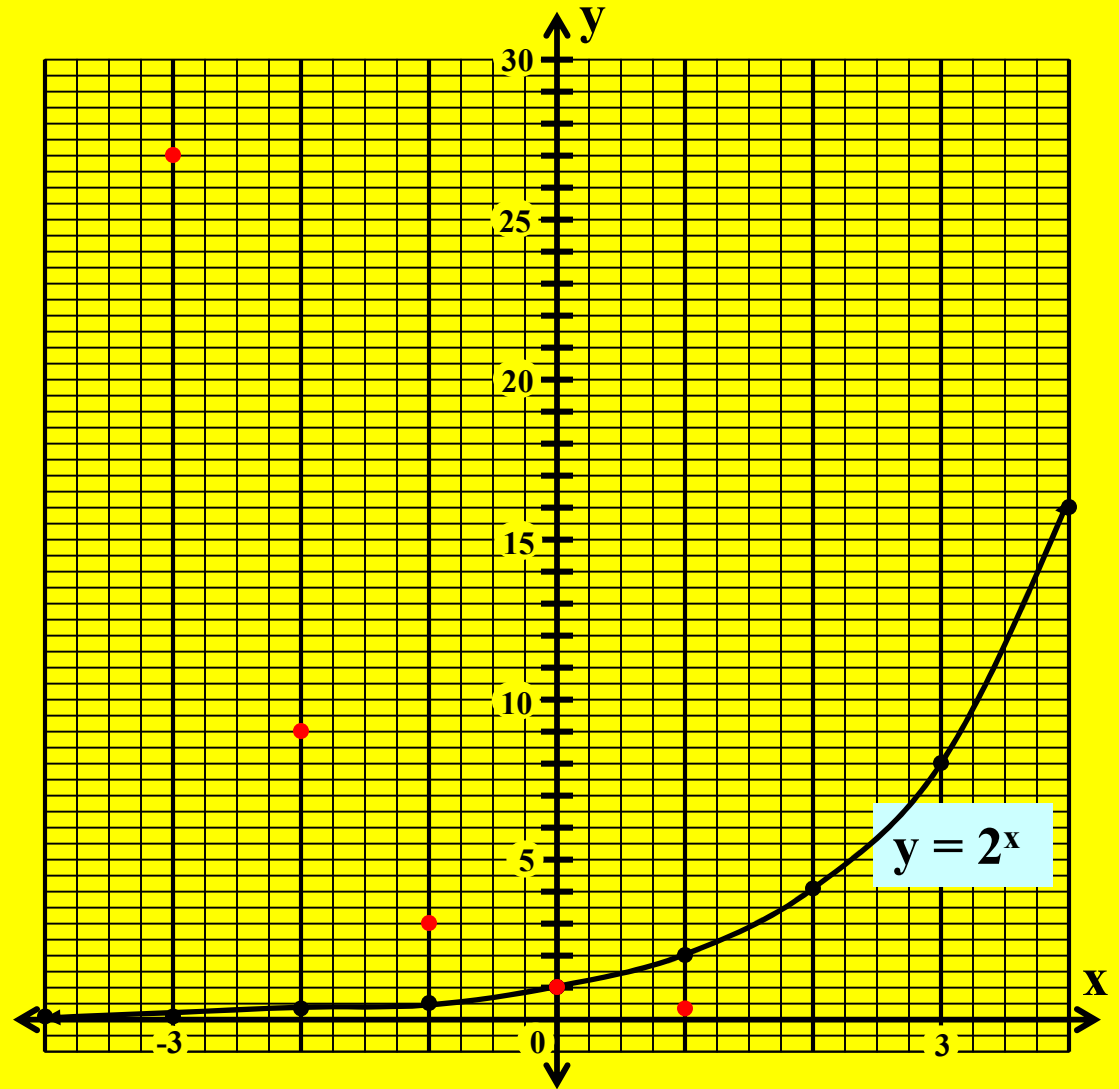
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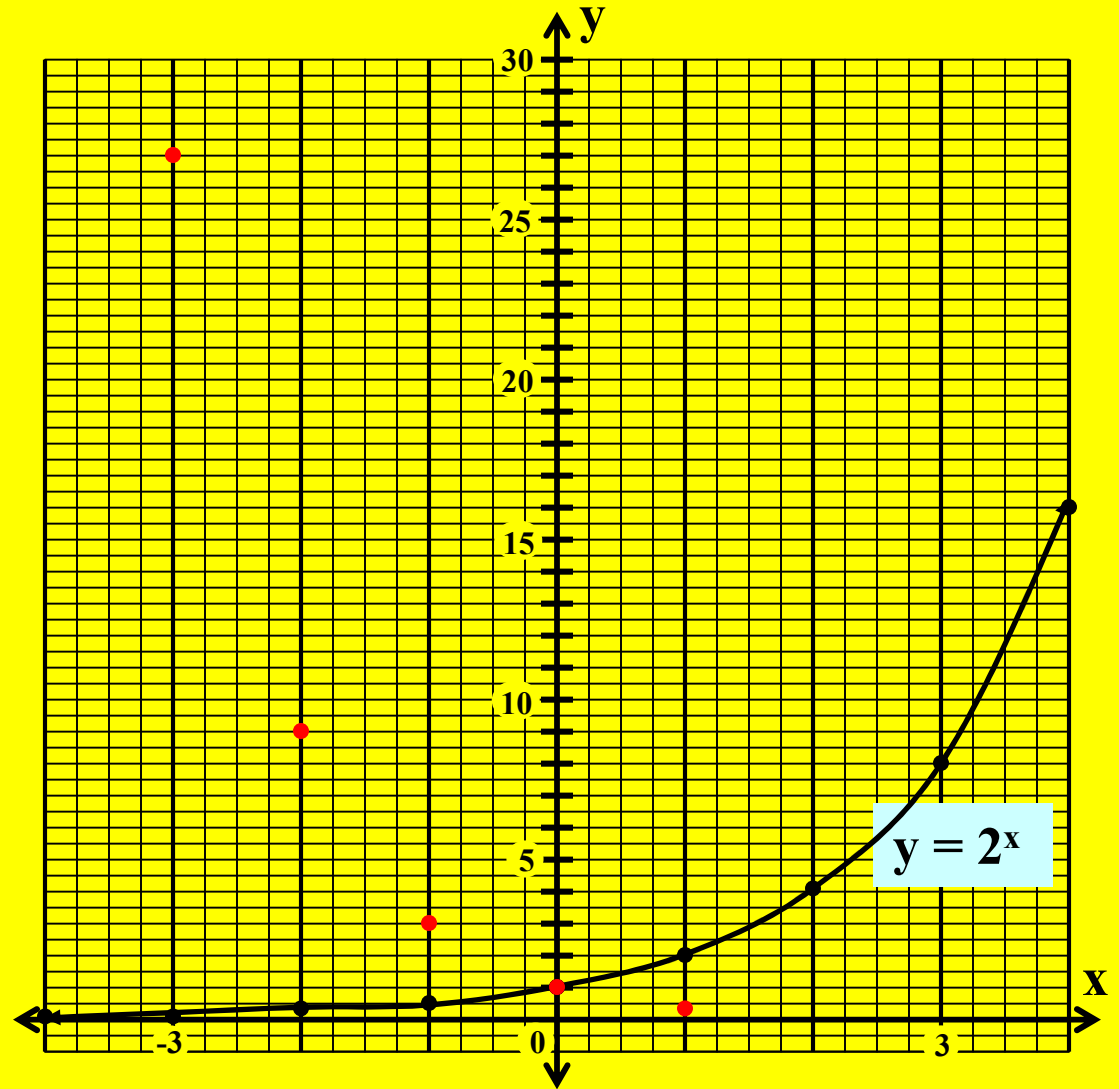
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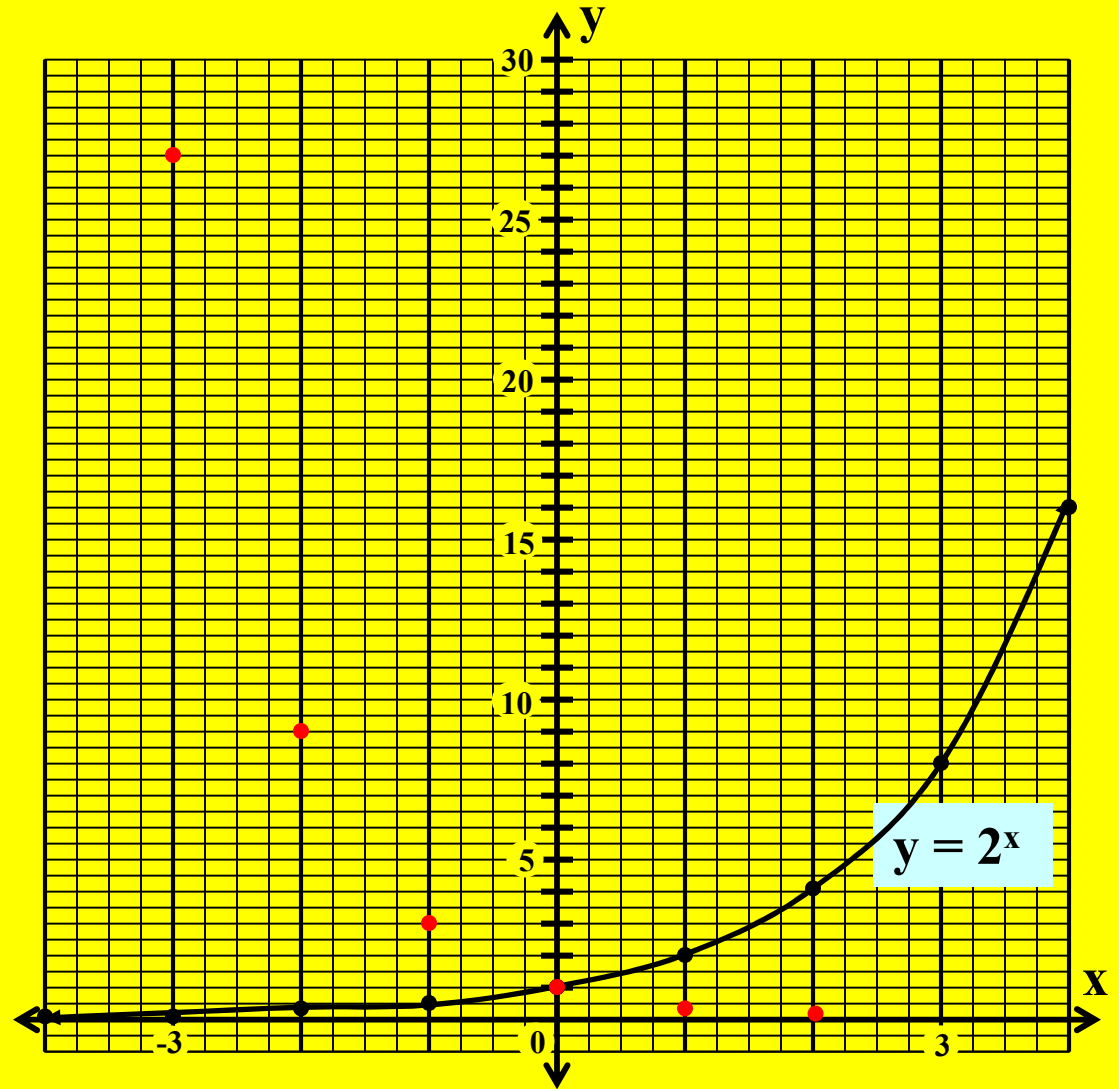
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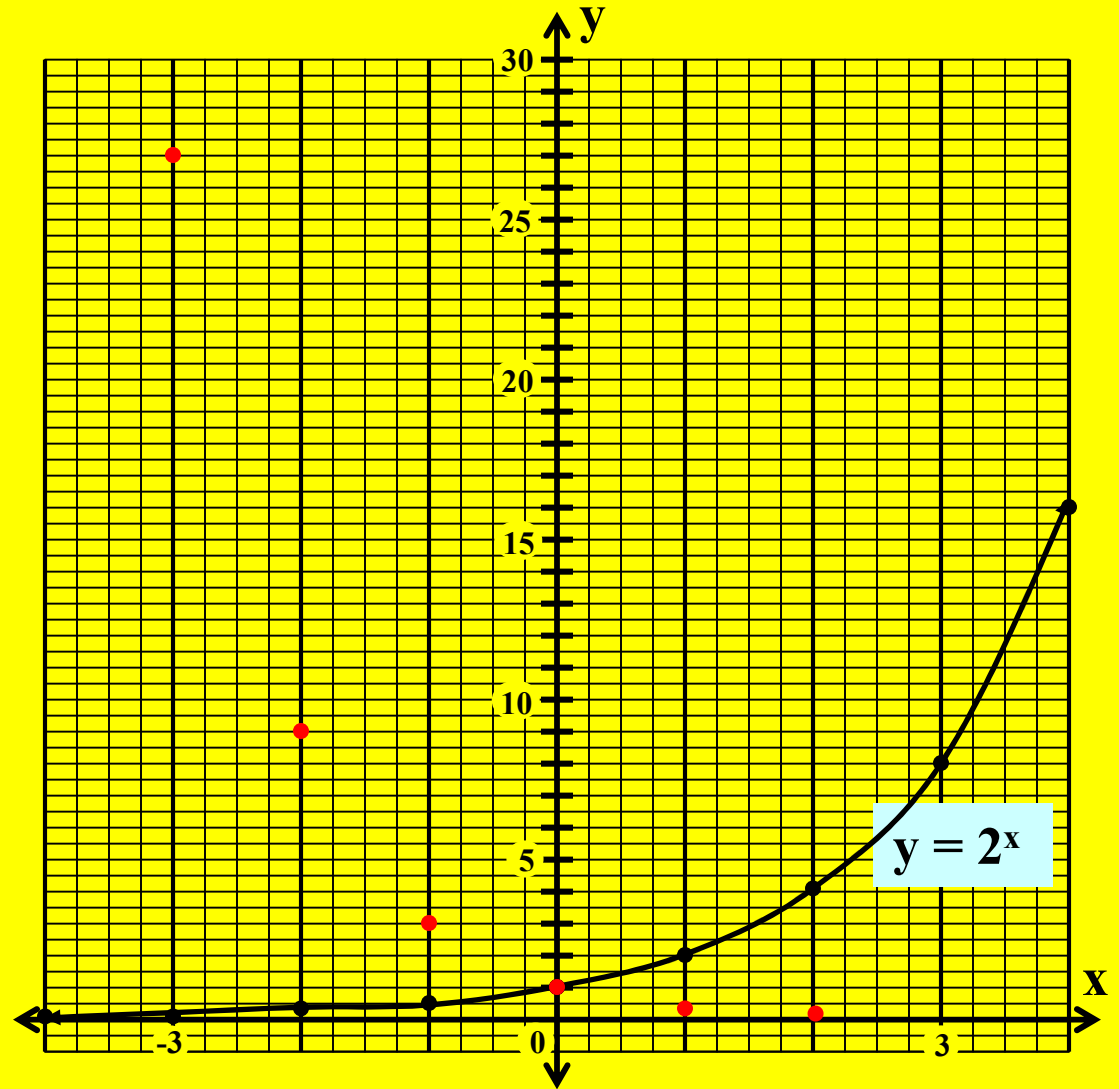
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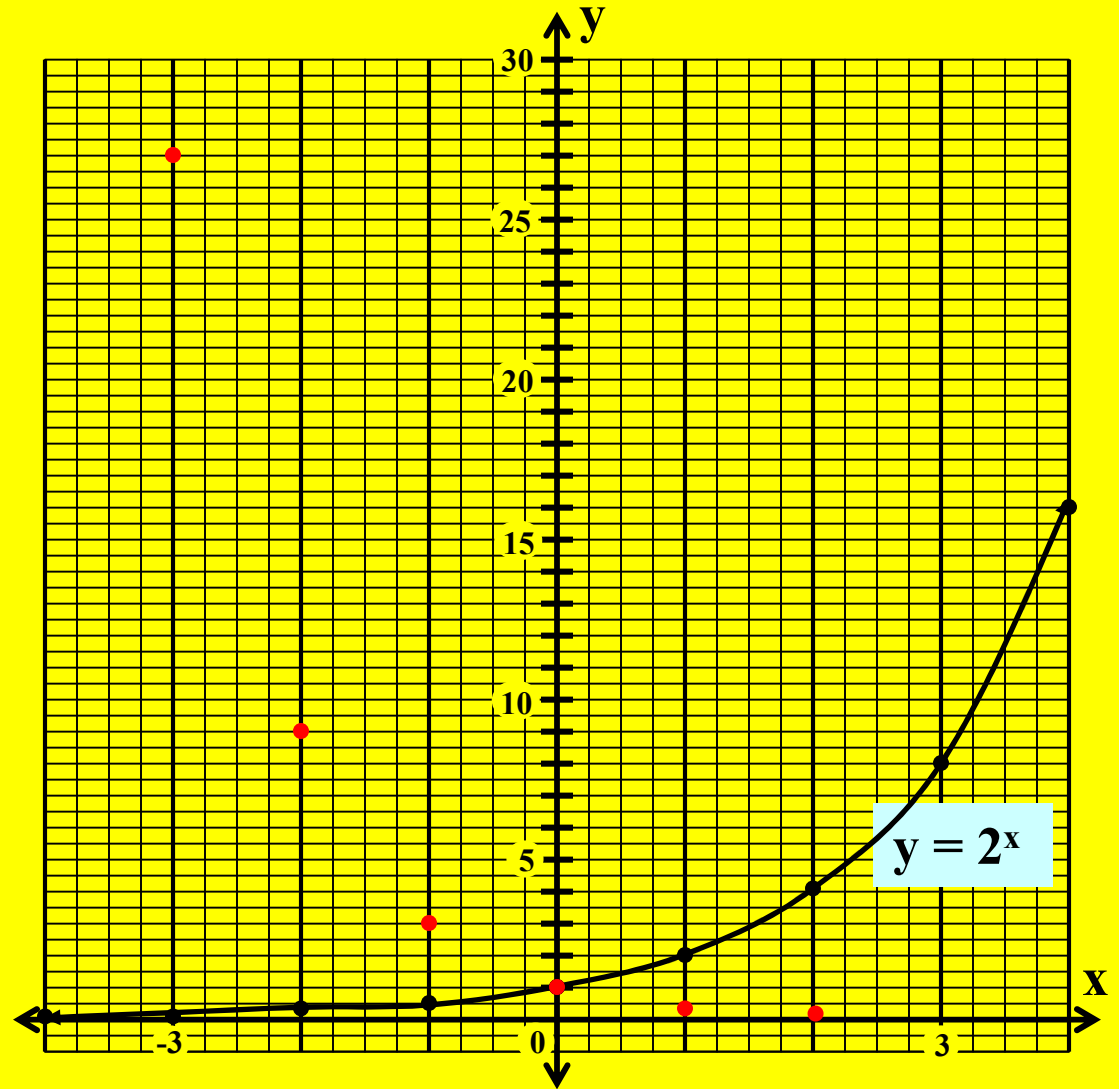
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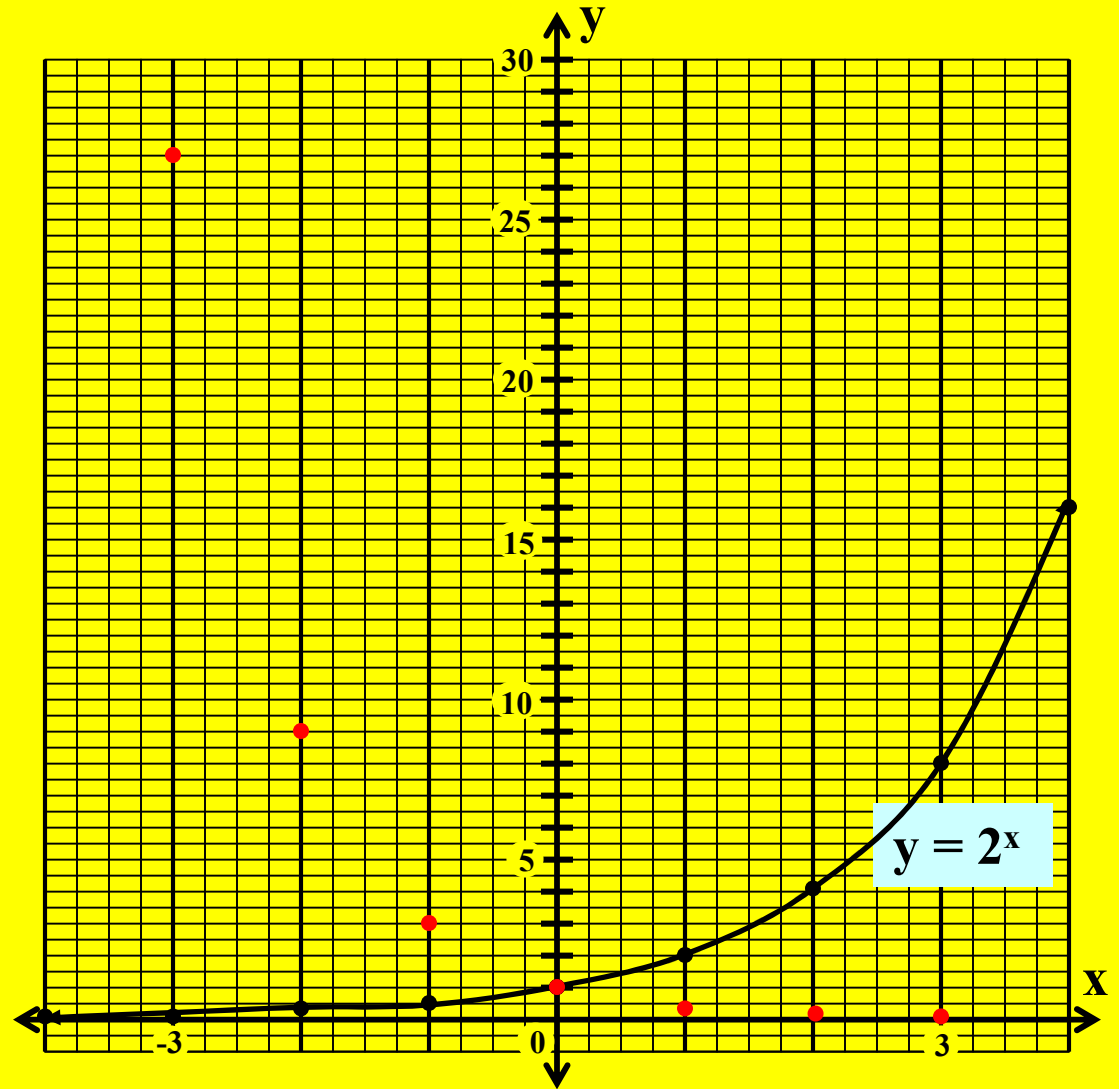
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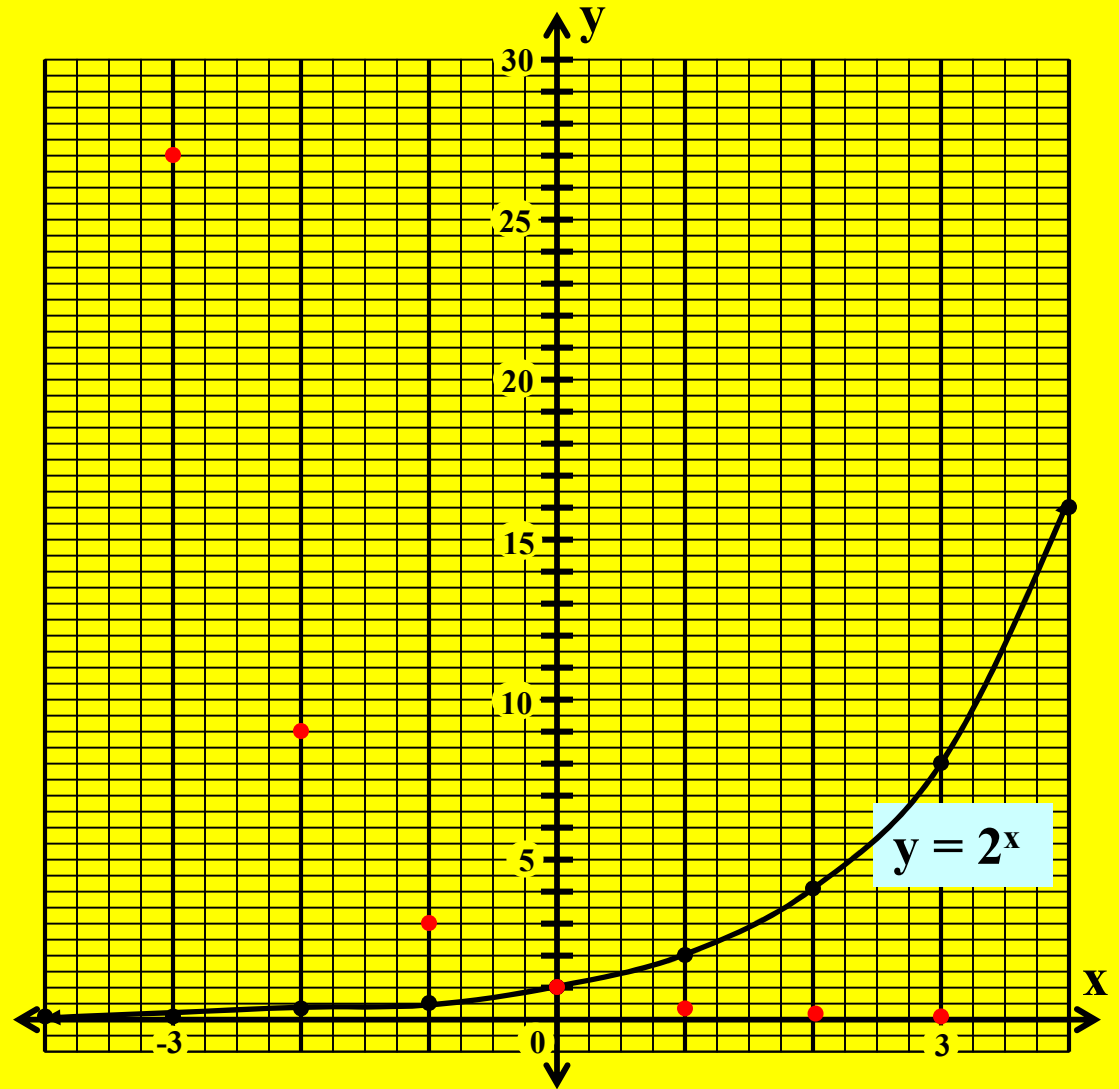
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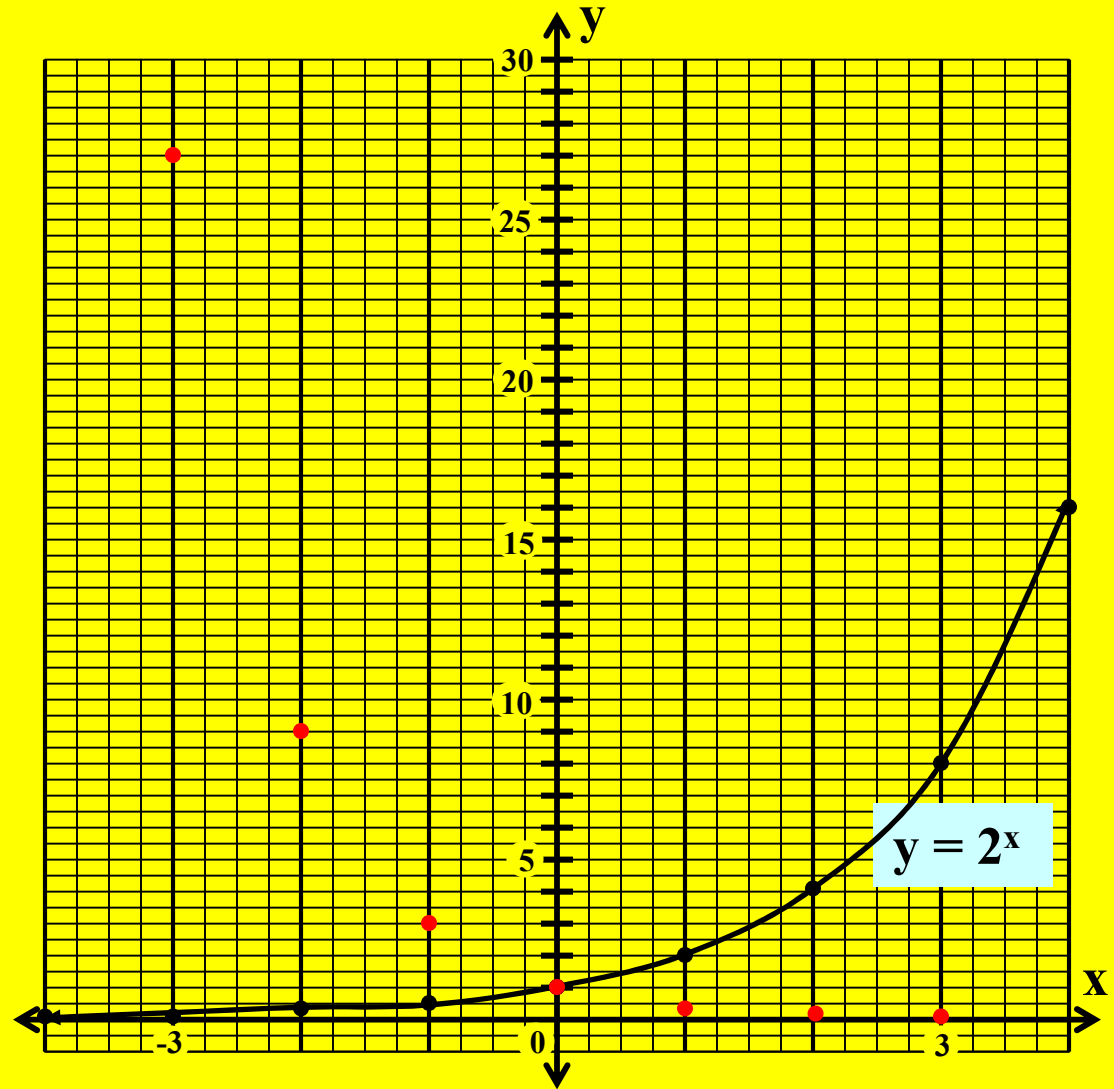
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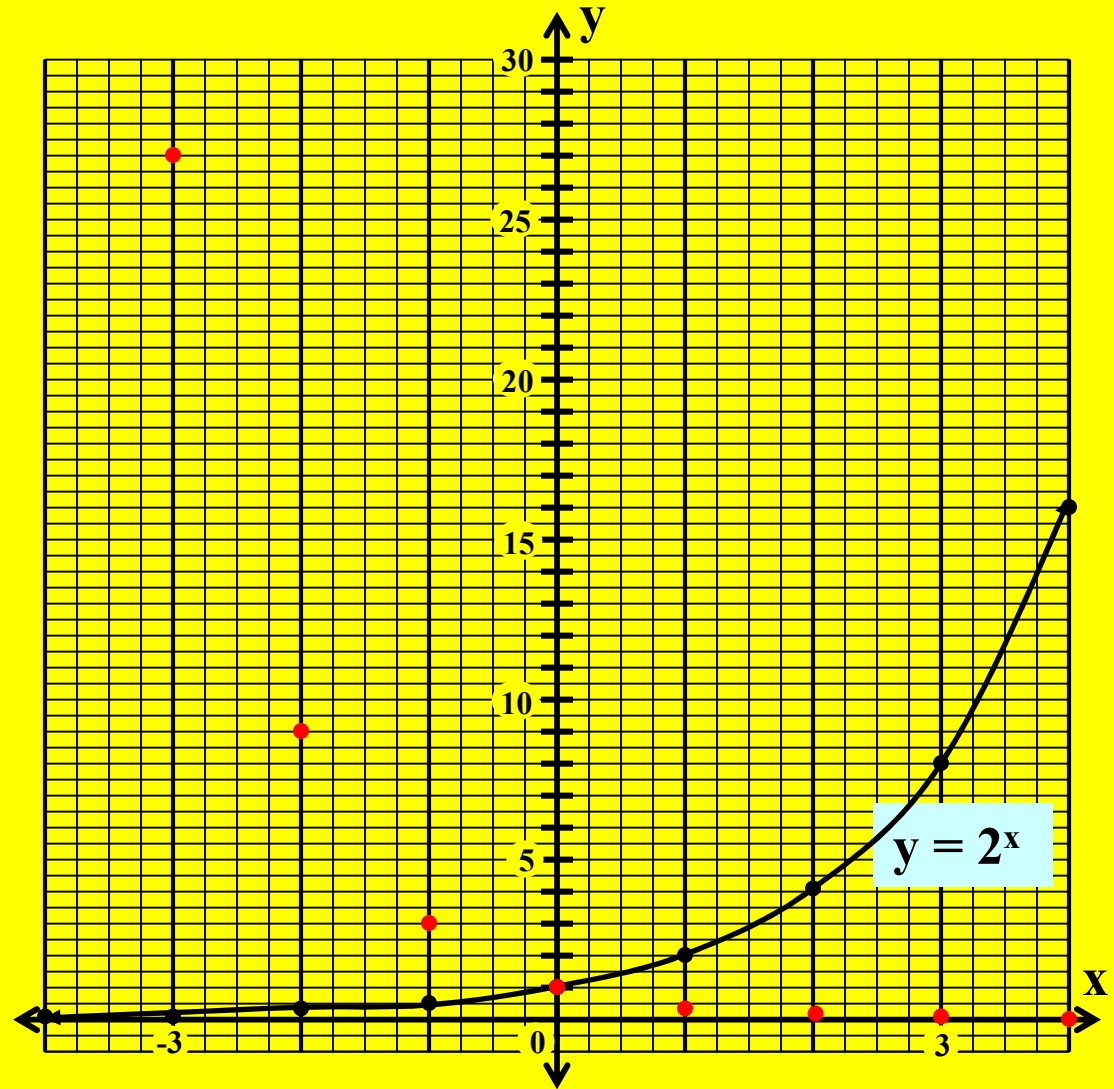
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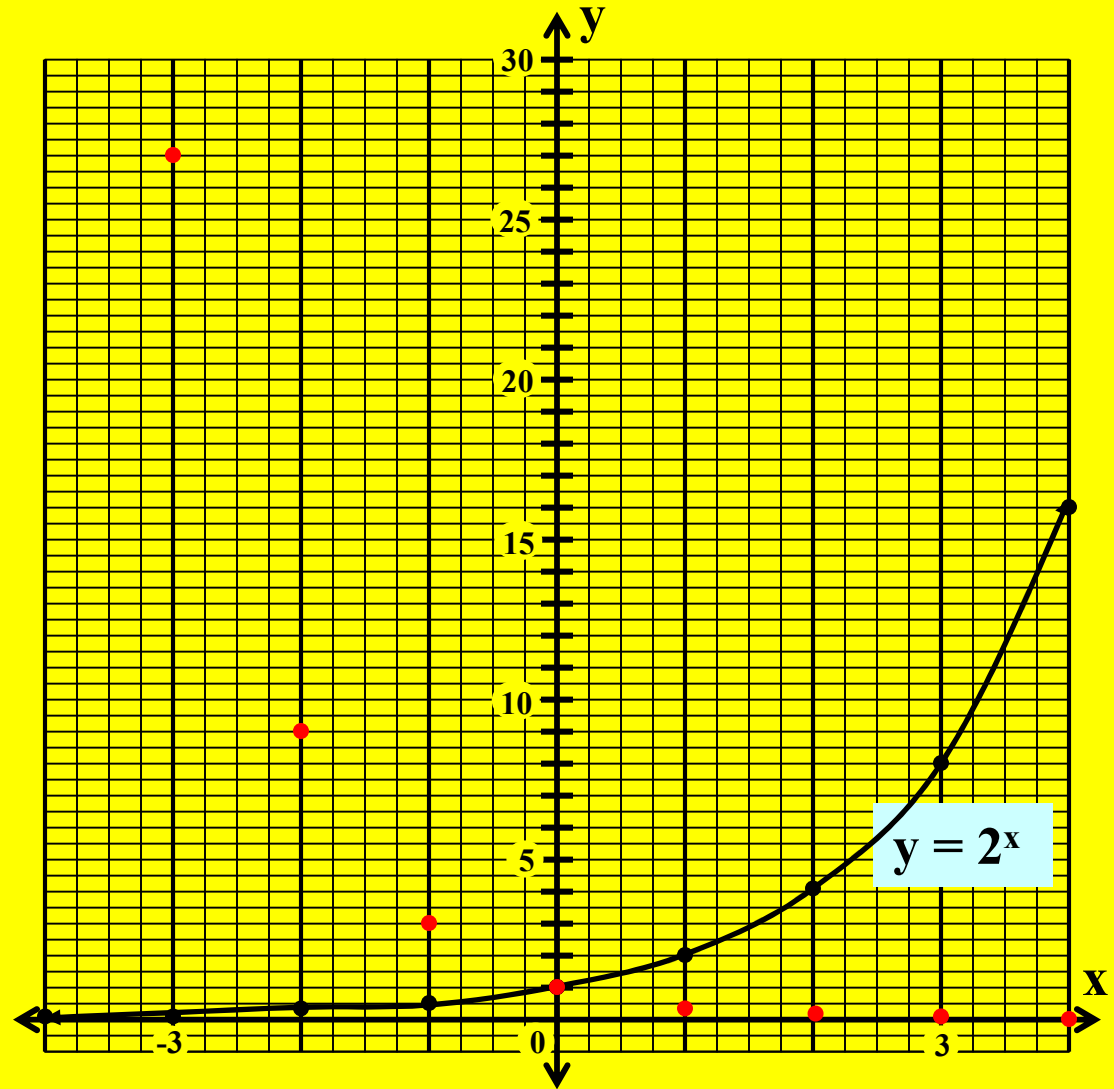
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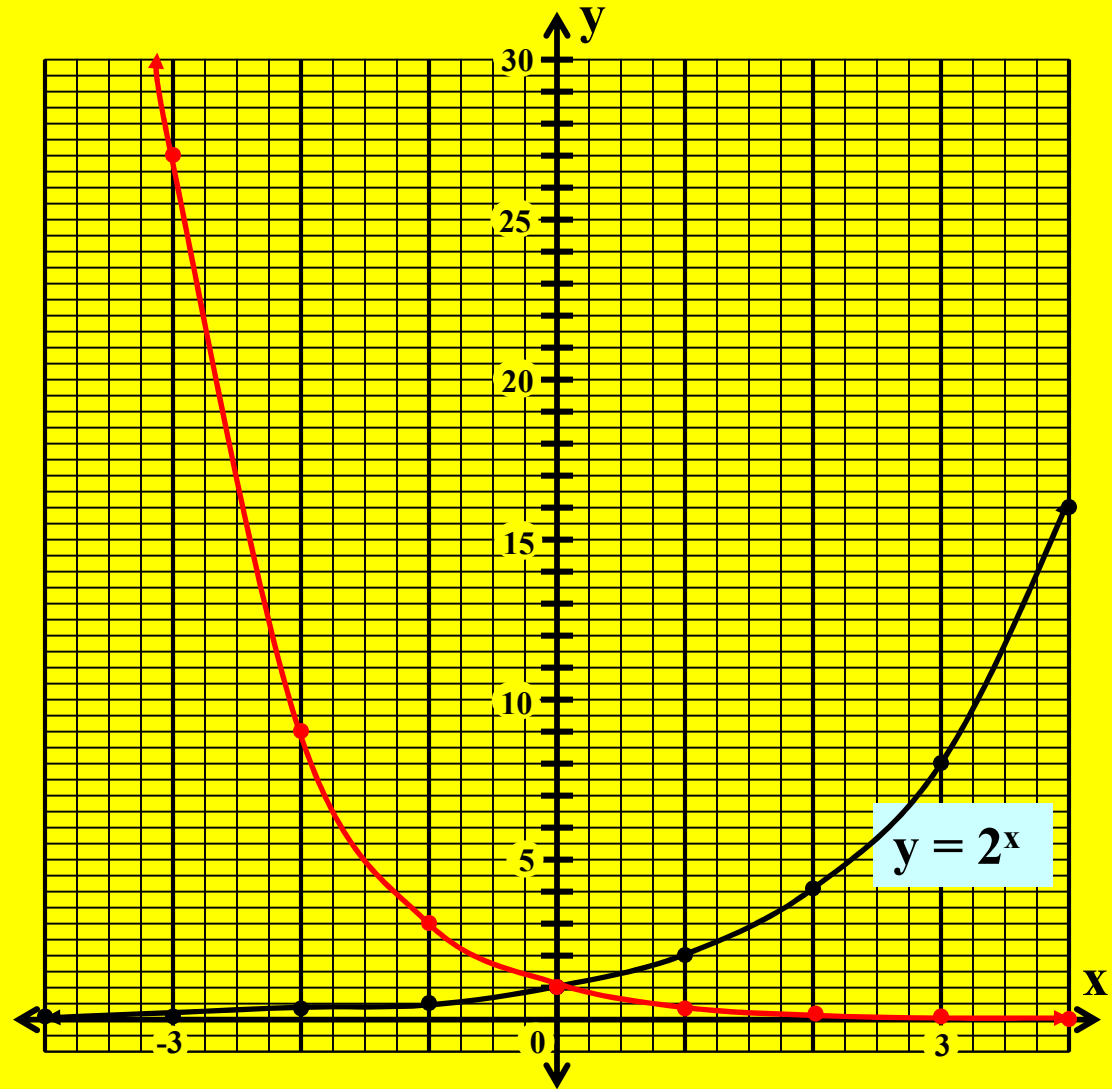
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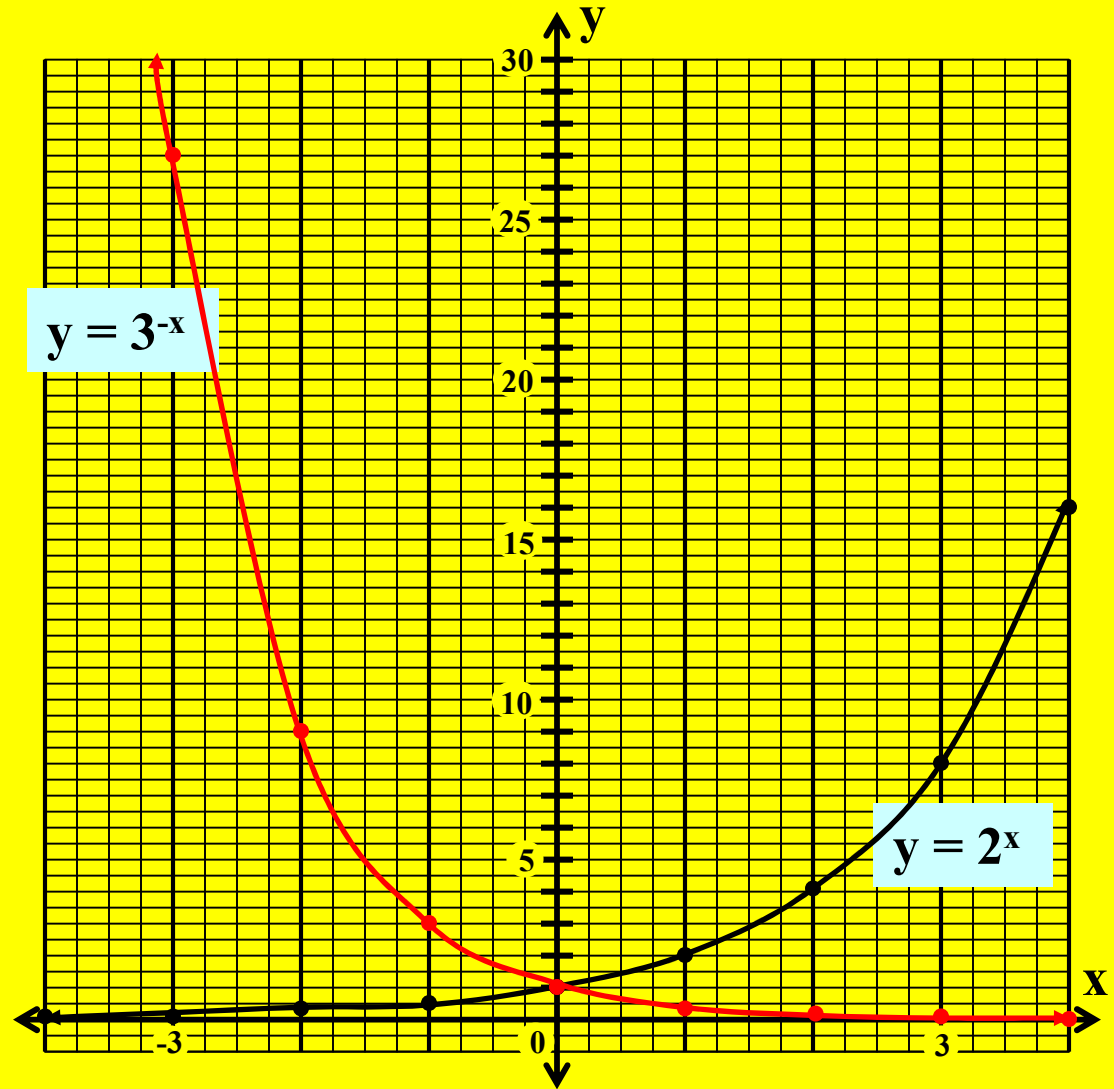
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## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

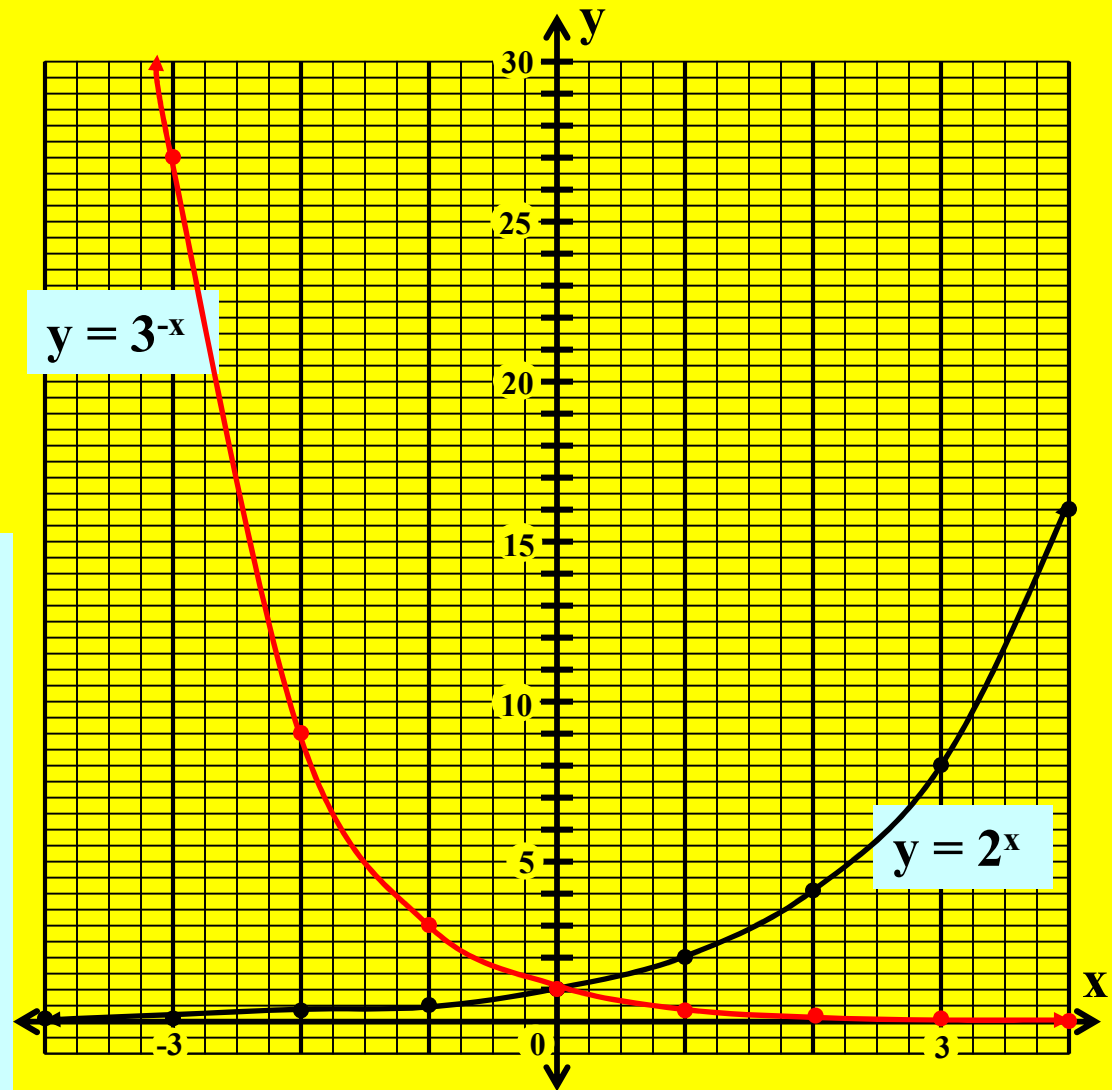
1.  $y = 2^x$

x	y
-4	1/16
-3	1/8
-2	1/4
-1	1/2
0	1
1	2
2	4
3	8
4	16

2.  $y = 3^{-x}$

x	y
-4	81
-3	27
-2	9
-1	3
0	1
1	1/3
2	1/9
3	1/27
4	1/81

$3^{-x}$  is equivalent to  $(1/3)^x$ .



## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

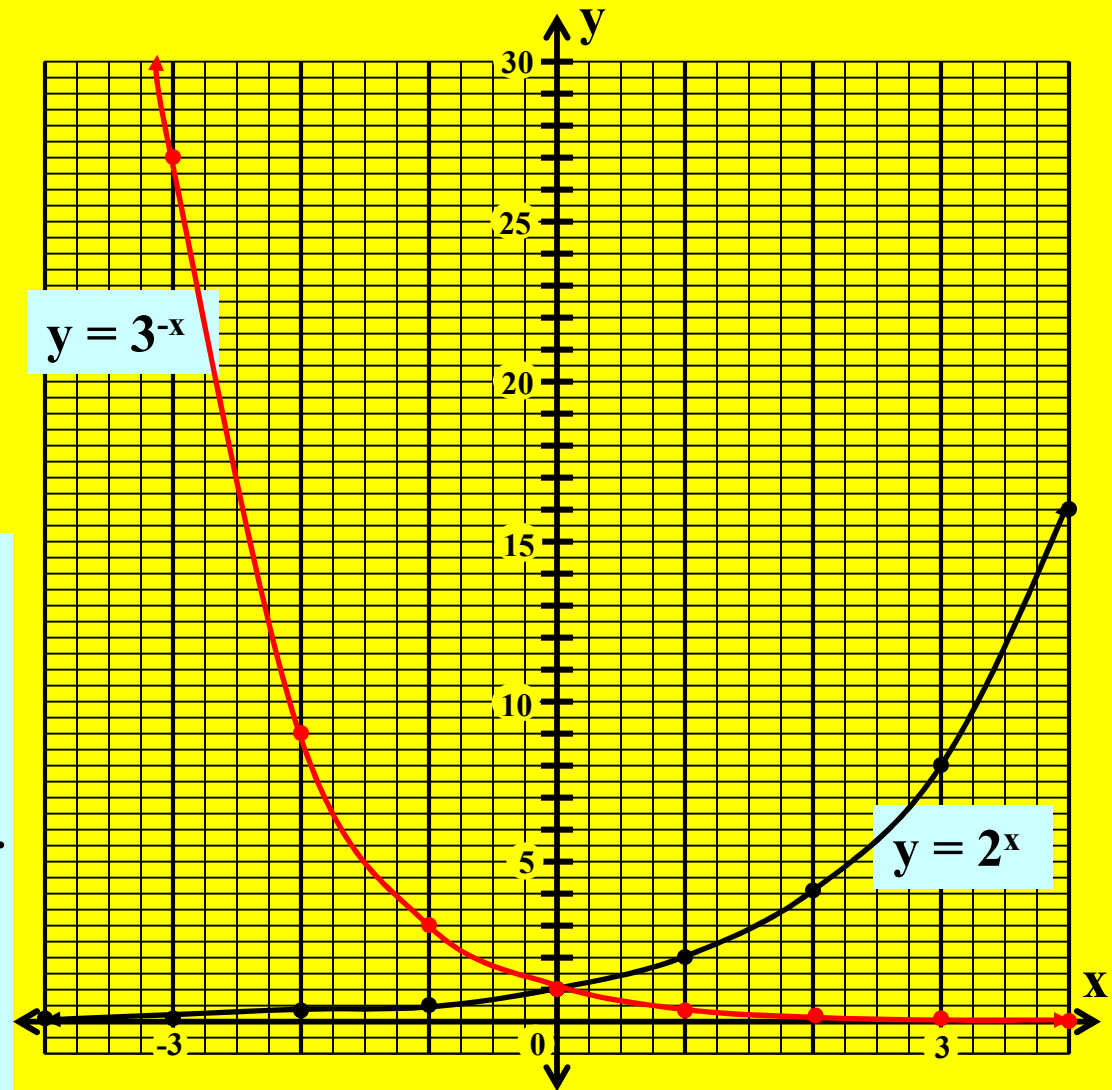
1.  $y = 2^x$

x	y
-4	1/16
-3	1/8
-2	1/4
-1	1/2
0	1
1	2
2	4
3	8
4	16

2.  $y = 3^{-x}$

x	y
-4	81
-3	27
-2	9
-1	3
0	1
1	1/3
2	1/9
3	1/27
4	1/81

$3^{-x}$  is equivalent to  $(1/3)^x$ .  
Notice that the value of  $y$  is multiplied by 1/3 for each one unit increase in  $x$ .



## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

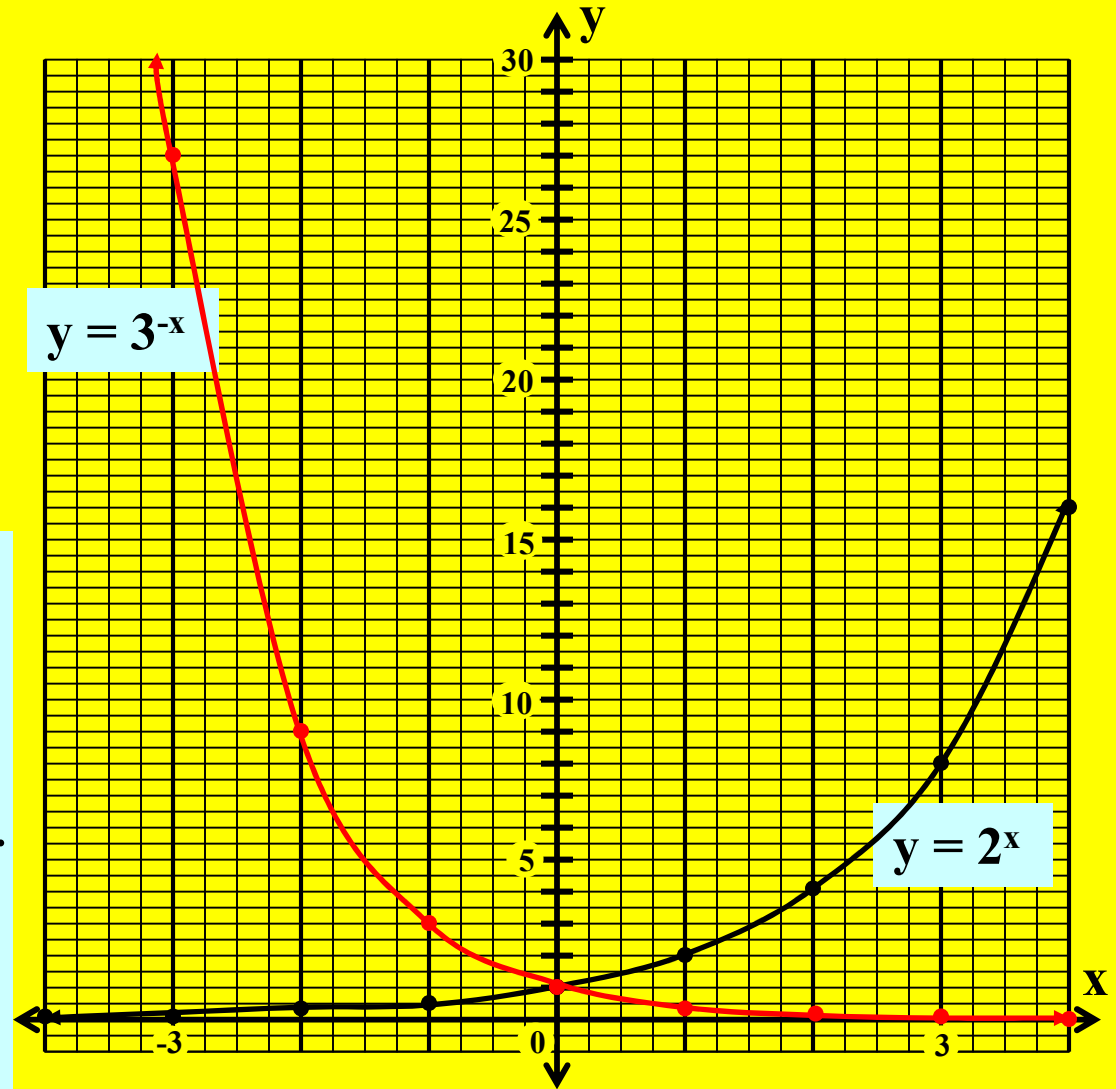
1.  $y = 2^x$

x	y
-4	1/16
-3	1/8
-2	1/4
-1	1/2
0	1
1	2
2	4
3	8
4	16

2.  $y = 3^{-x}$

x	y
-4	81
-3	27
-2	9
-1	3
0	1
1	1/3
2	1/9
3	1/27
4	1/81

$3^{-x}$  is equivalent to  $(1/3)^x$ . Notice that the value of  $y$  is multiplied by 1/3 for each one unit increase in  $x$ . This is an example of 'exponential decay'.



## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

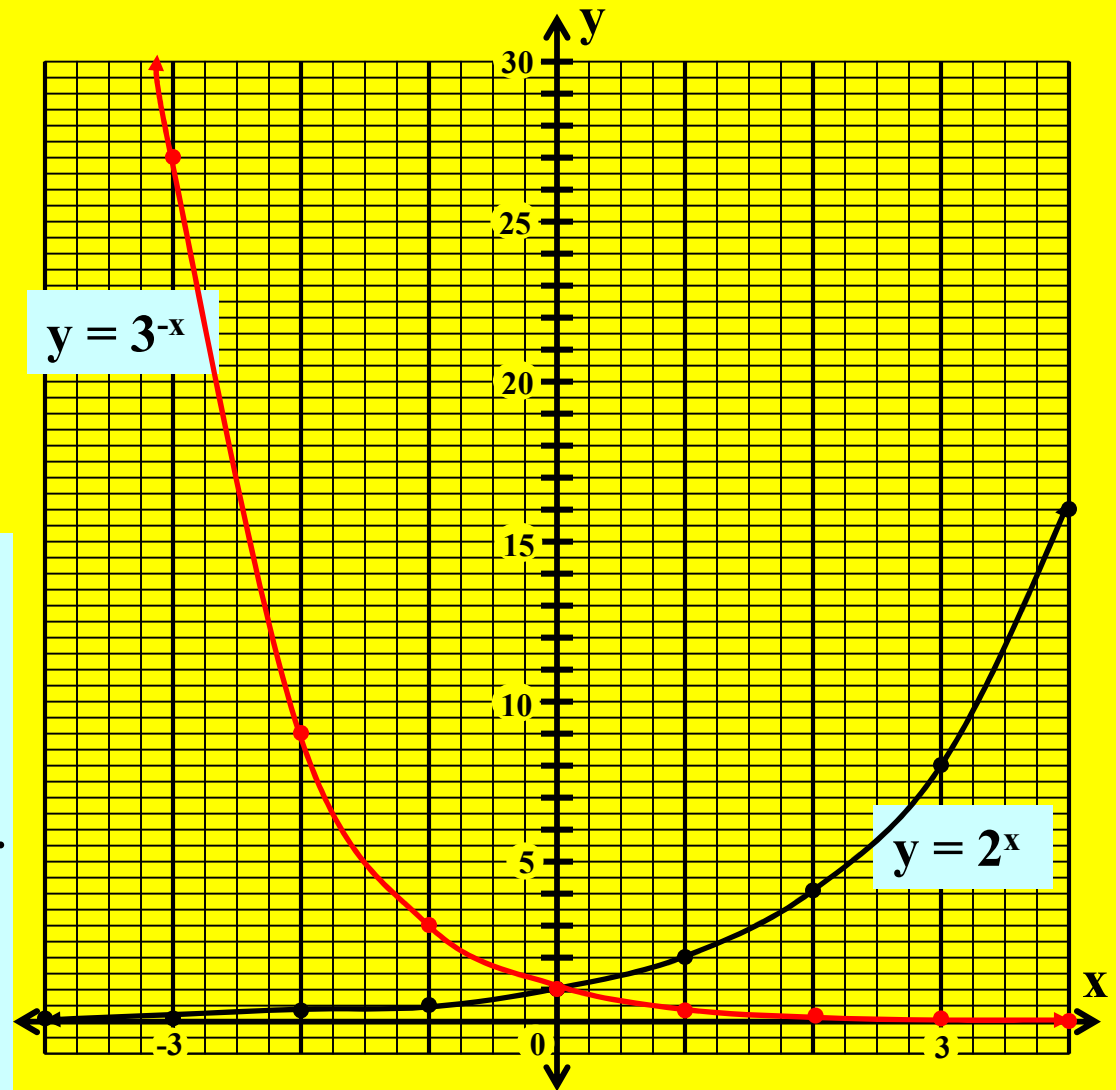
1.  $y = 2^x$

x	y
-4	1/16
-3	1/8
-2	1/4
-1	1/2
0	1
1	2
2	4
3	8
4	16

2.  $y = 3^{-x}$

x	y
-4	81
-3	27
-2	9
-1	3
0	1
1	1/3
2	1/9
3	1/27
4	1/81

$3^{-x}$  is equivalent to  $(1/3)^x$ . Notice that the value of  $y$  is multiplied by 1/3 for each one unit increase in  $x$ . This is an example of 'exponential decay'. As  $x$  increases,  $y$  gets closer to zero.





# Algebra II Class Worksheet #3 Unit 10

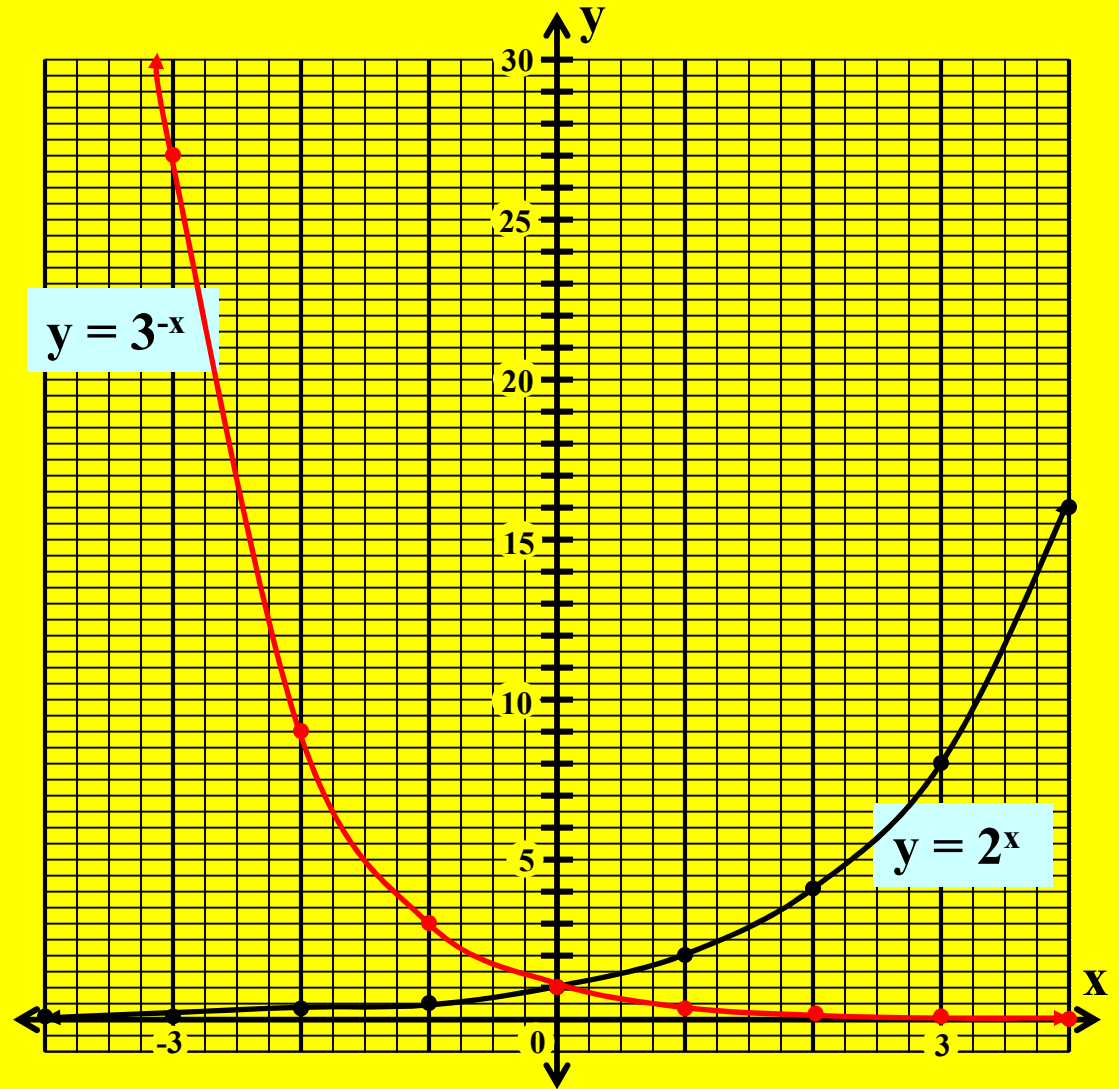
Sketch a graph of each of the following.

1.  $y = 2^x$

x	y
-4	1/16
-3	1/8
-2	1/4
-1	1/2
0	1
1	2
2	4
3	8
4	16

2.  $y = 3^{-x}$

x	y
-4	81
-3	27
-2	9
-1	3
0	1
1	1/3
2	1/9
3	1/27
4	1/81



# Algebra II Class Worksheet #3 Unit 10

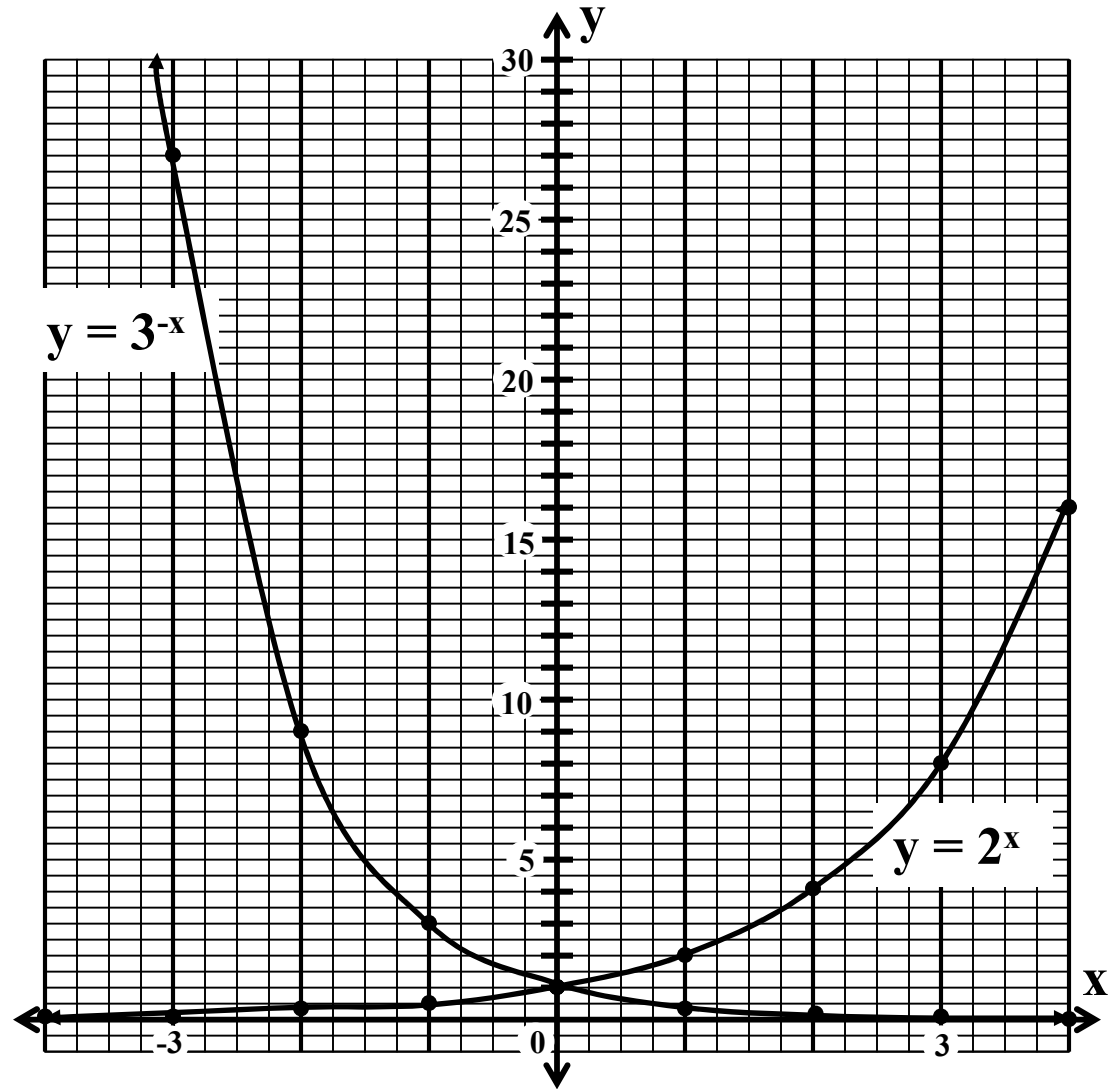
Sketch a graph of each of the following.

1.  $y = 2^x$

x	y
-4	1/16
-3	1/8
-2	1/4
-1	1/2
0	1
1	2
2	4
3	8
4	16

2.  $y = 3^{-x}$

x	y
-4	81
-3	27
-2	9
-1	3
0	1
1	1/3
2	1/9
3	1/27
4	1/81

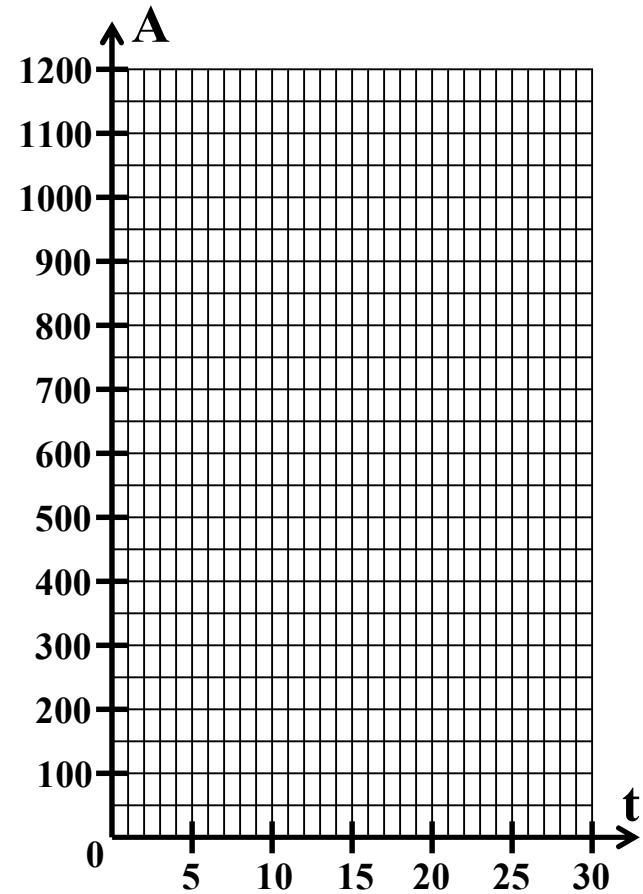


## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	
5	
10	
15	
20	
25	
30	

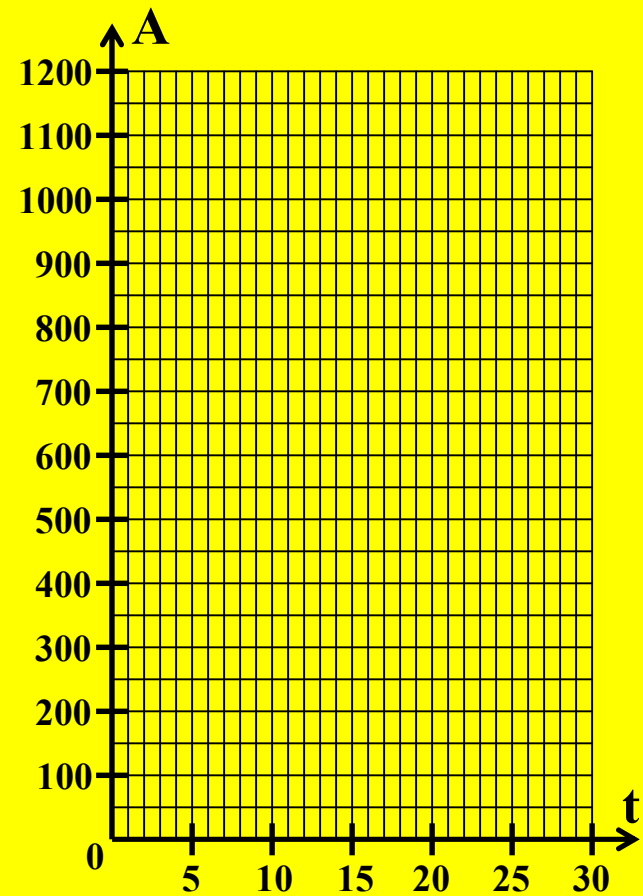


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Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	
5	
10	
15	
20	
25	
30	



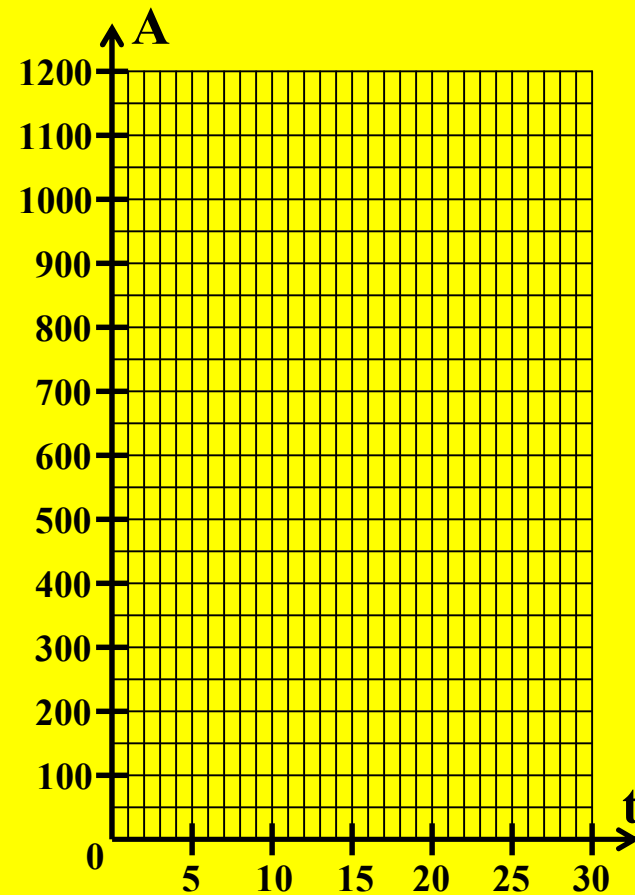
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Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	
5	
10	
15	
20	
25	
30	

#3 is another example of an **exponential function**.



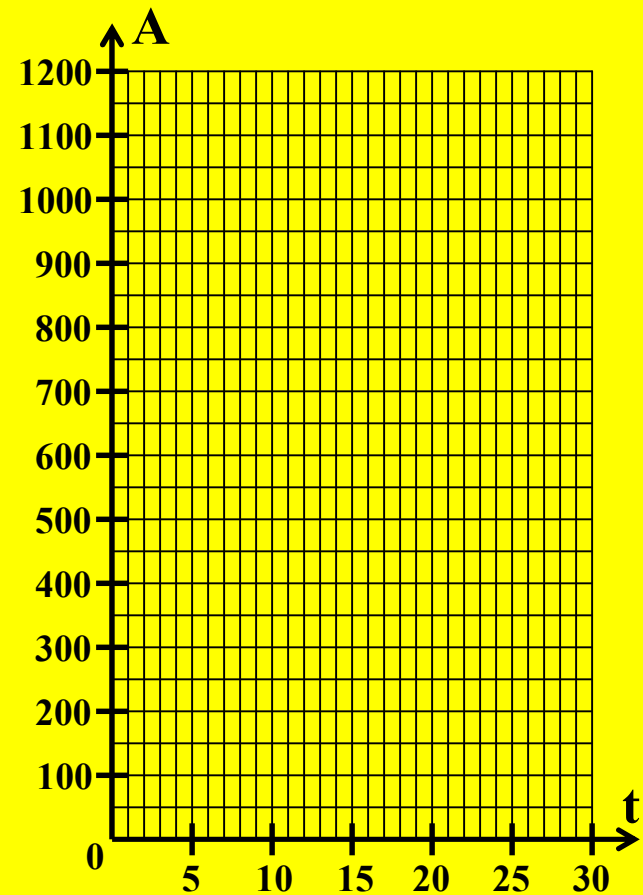
## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	
5	
10	
15	
20	
25	
30	

#3 is another example of an **exponential function**. We will fill out the table, plot the points, and then ‘connect the dots’.

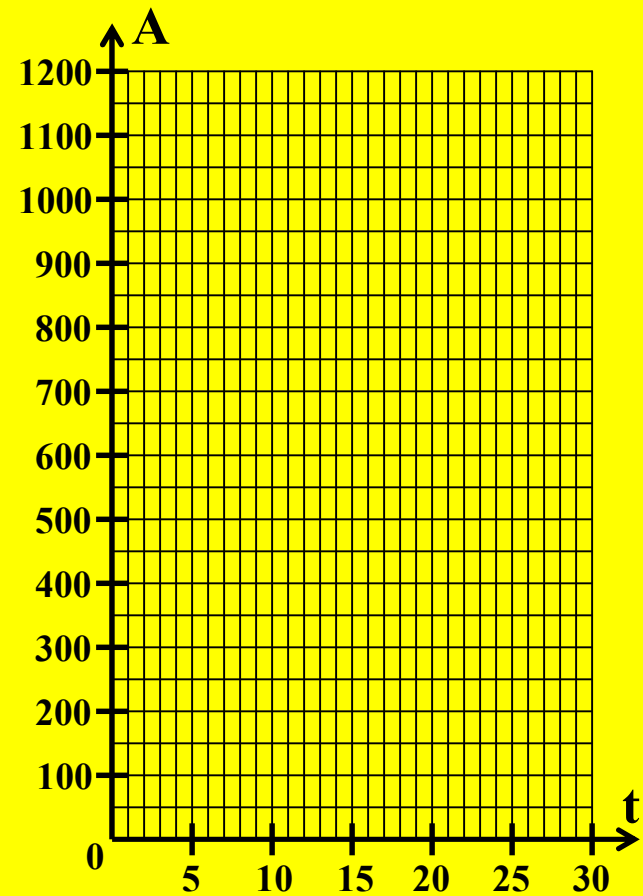


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t	A
0	
5	
10	
15	
20	
25	
30	

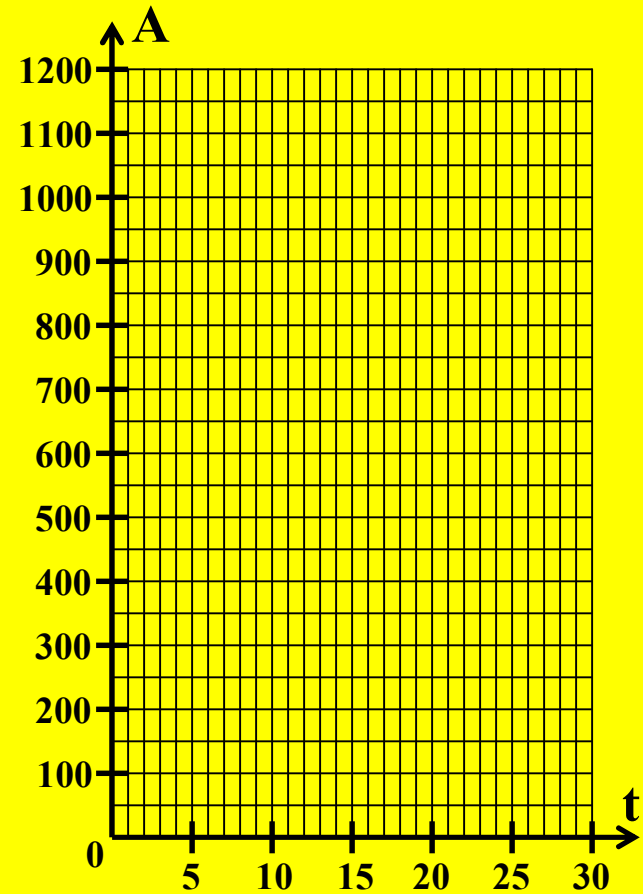


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Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	
5	
10	
15	
20	
25	
30	



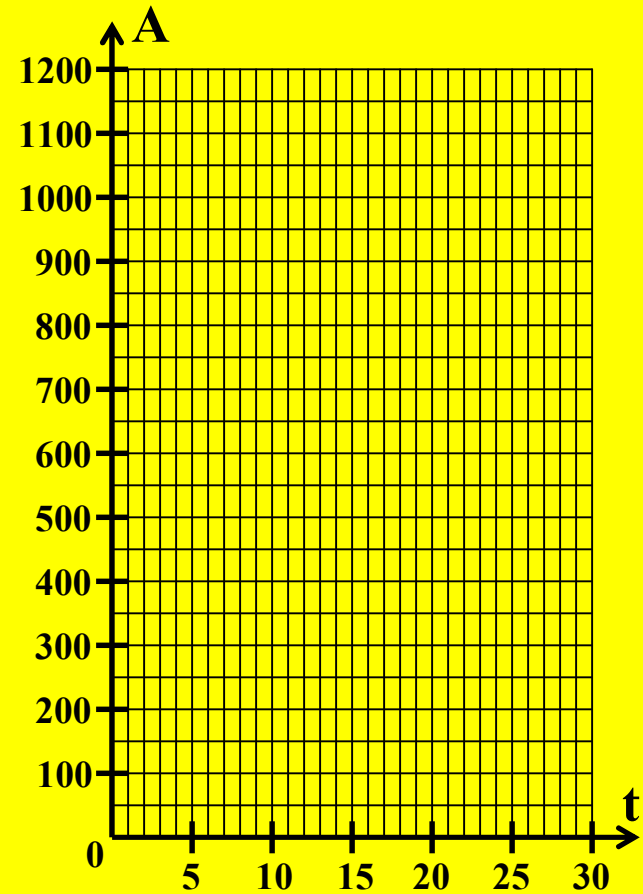


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t	A
0	100
5	
10	
15	
20	
25	
30	

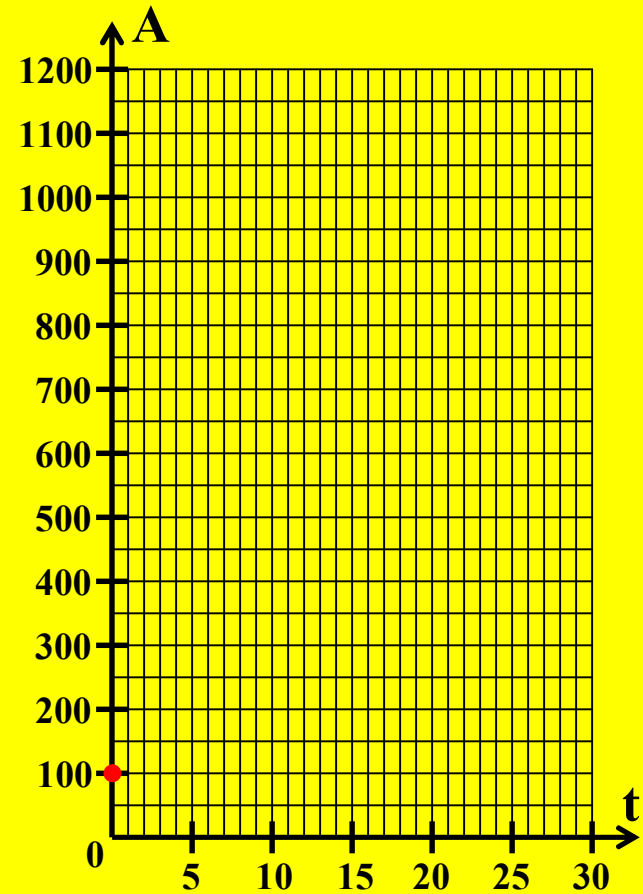


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3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	
10	
15	
20	
25	
30	

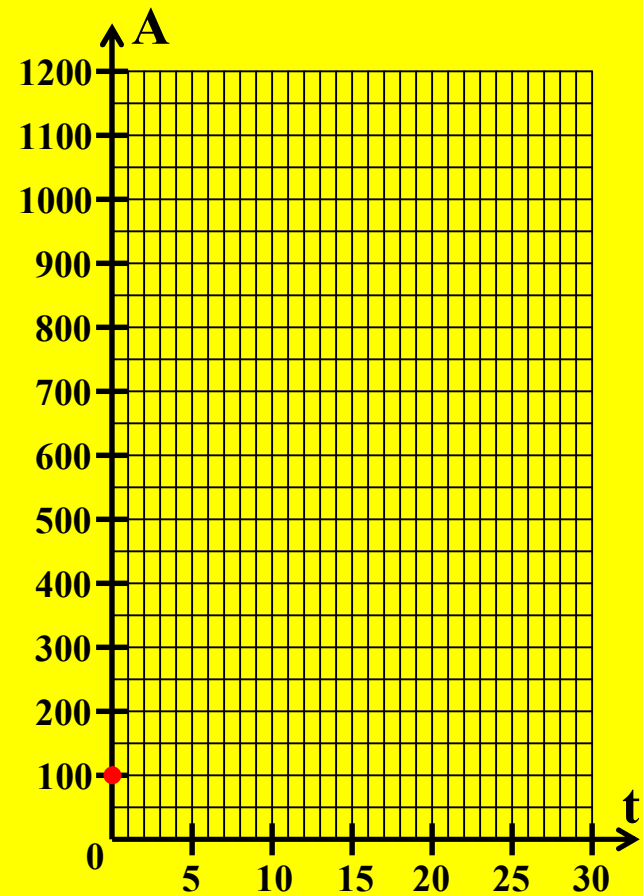


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Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	
10	
15	
20	
25	
30	

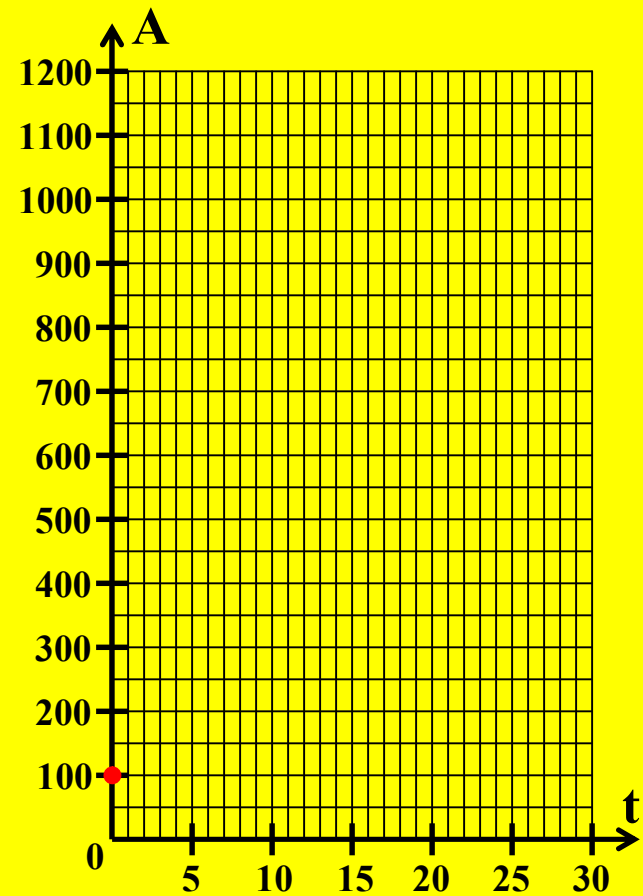


## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	
15	
20	
25	
30	

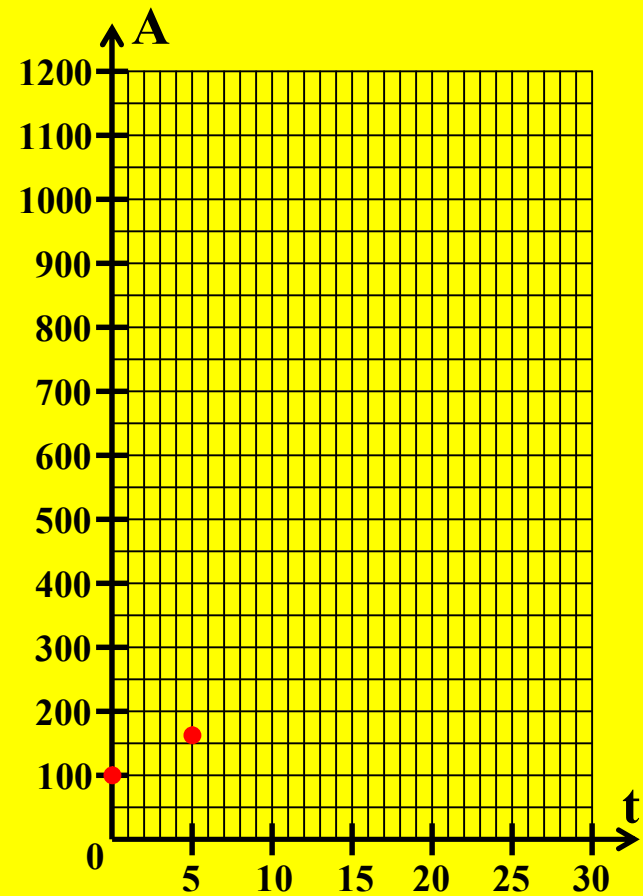


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Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	
15	
20	
25	
30	

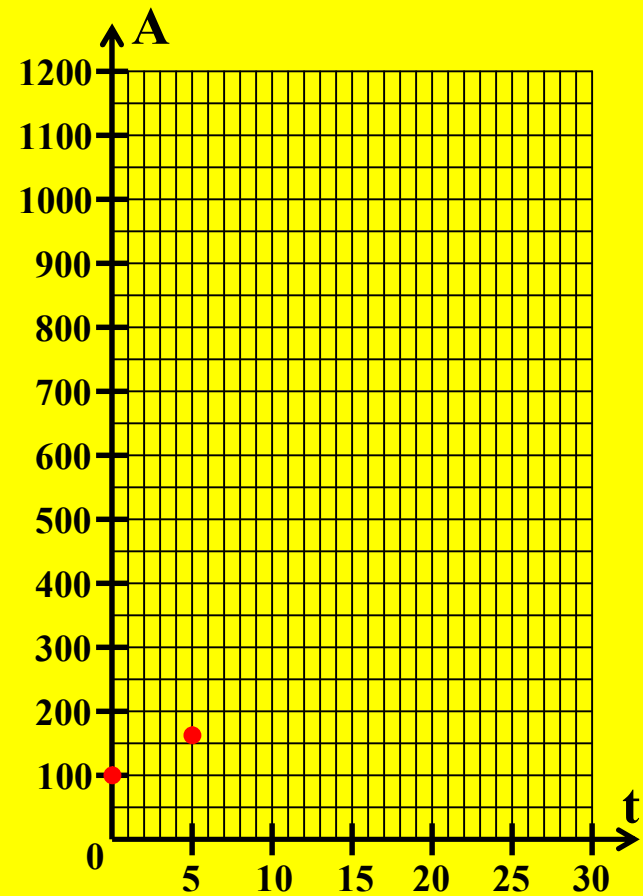


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t	A
0	100
5	161
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15	
20	
25	
30	

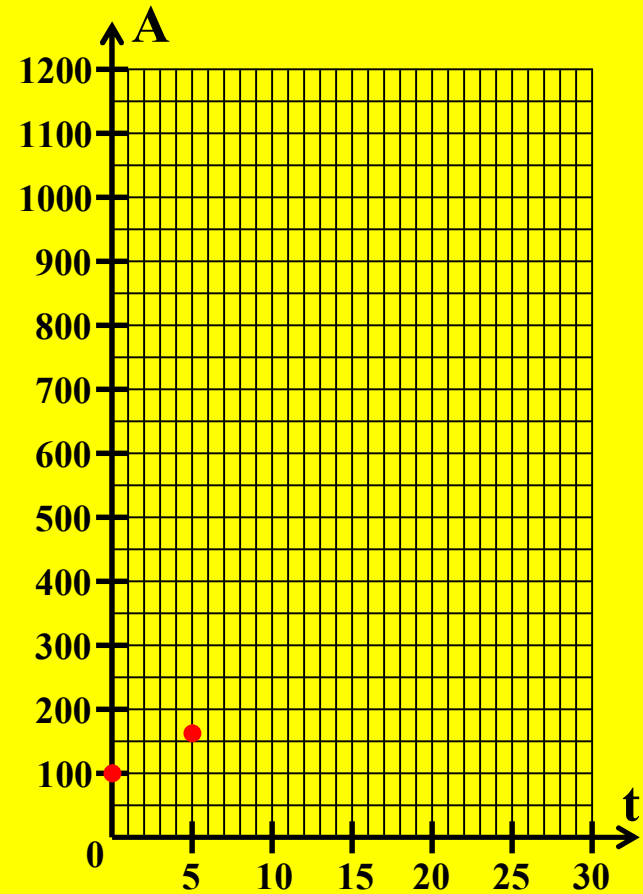


## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	
20	
25	
30	

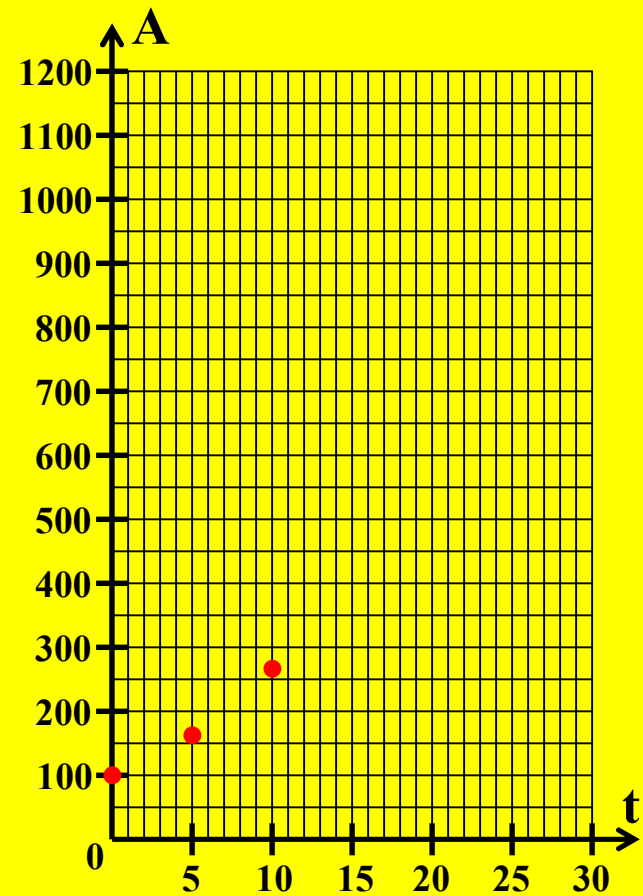


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t	A
0	100
5	161
10	260
15	
20	
25	
30	



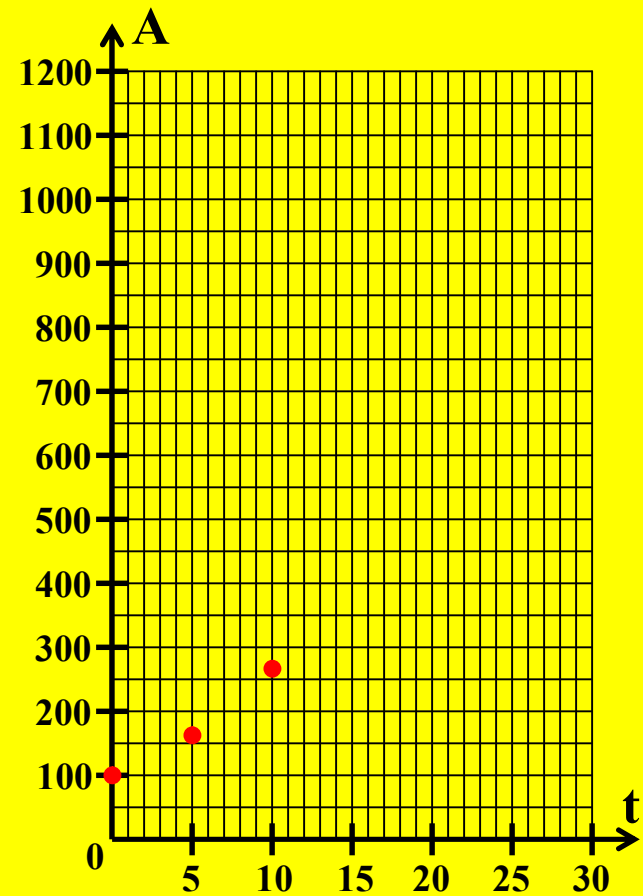


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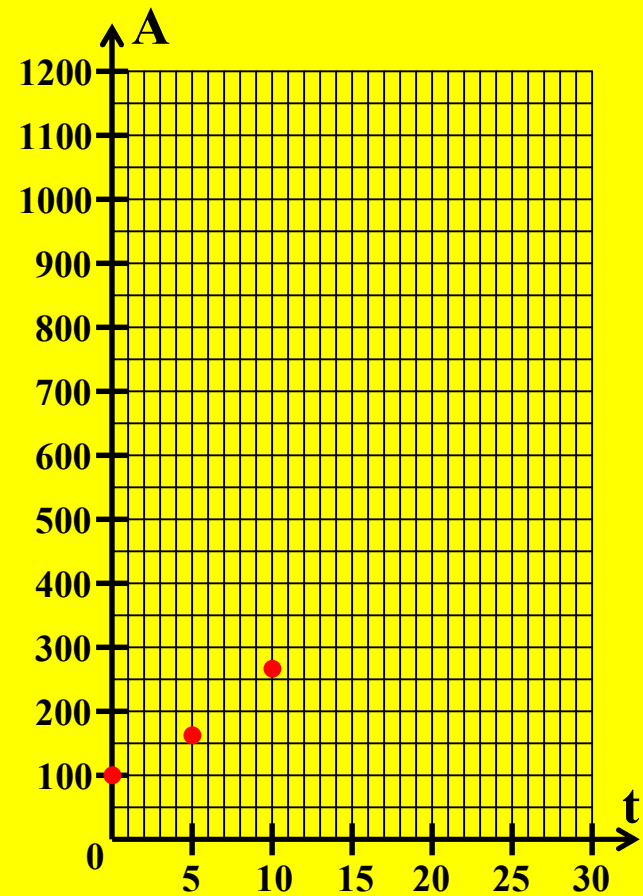


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15	420
20	
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30	

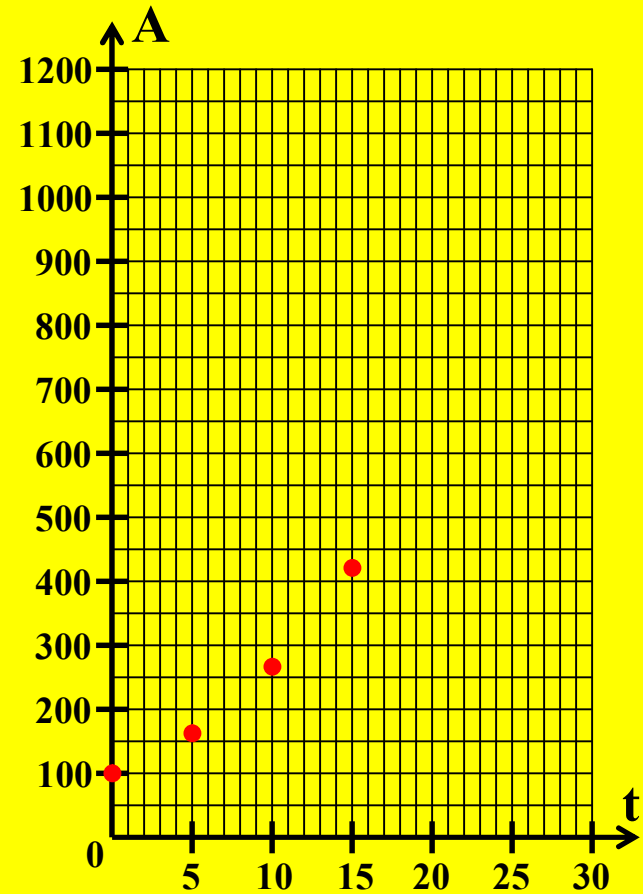


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t	A
0	100
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10	260
15	420
20	
25	
30	

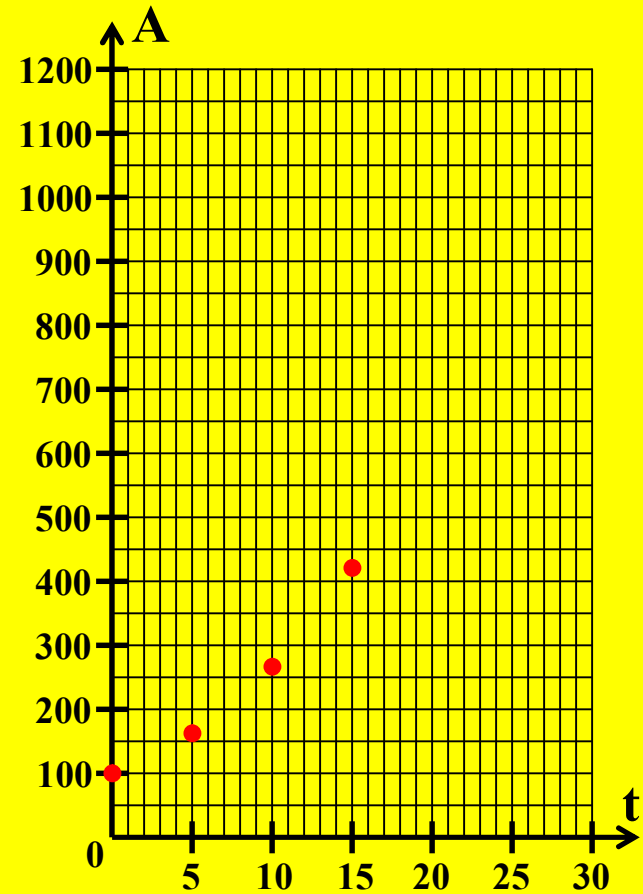


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t	A
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5	161
10	260
15	420
20	
25	
30	

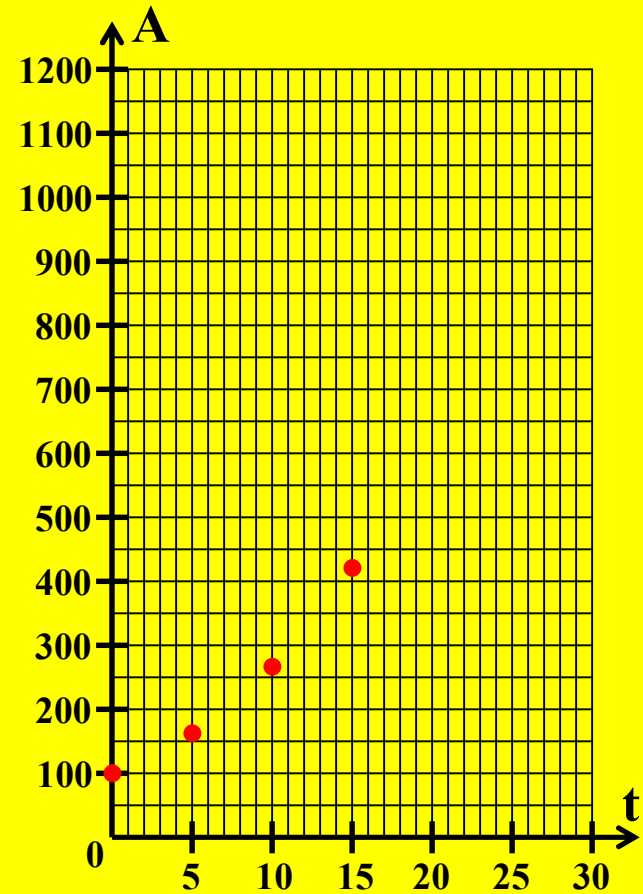


## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	
30	

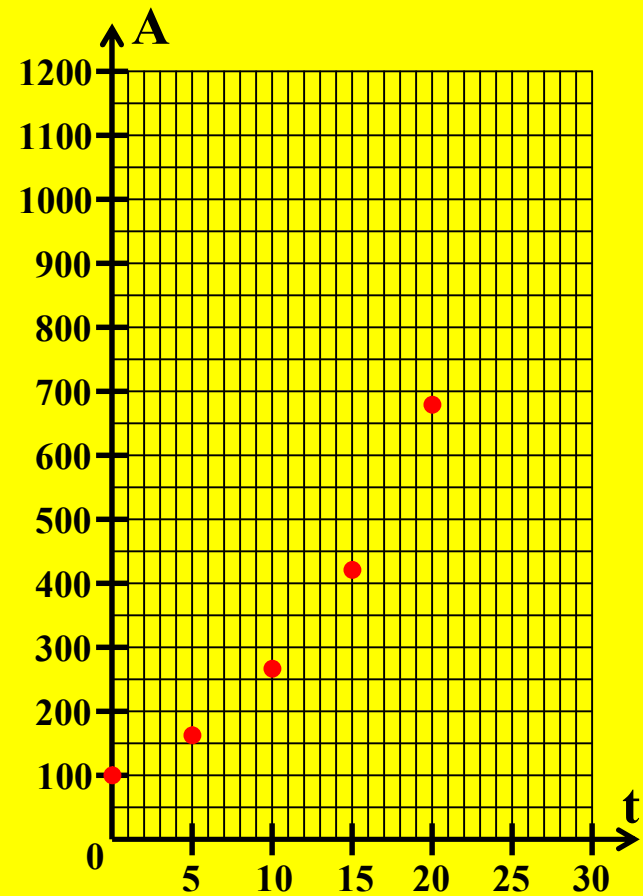


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Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	
30	

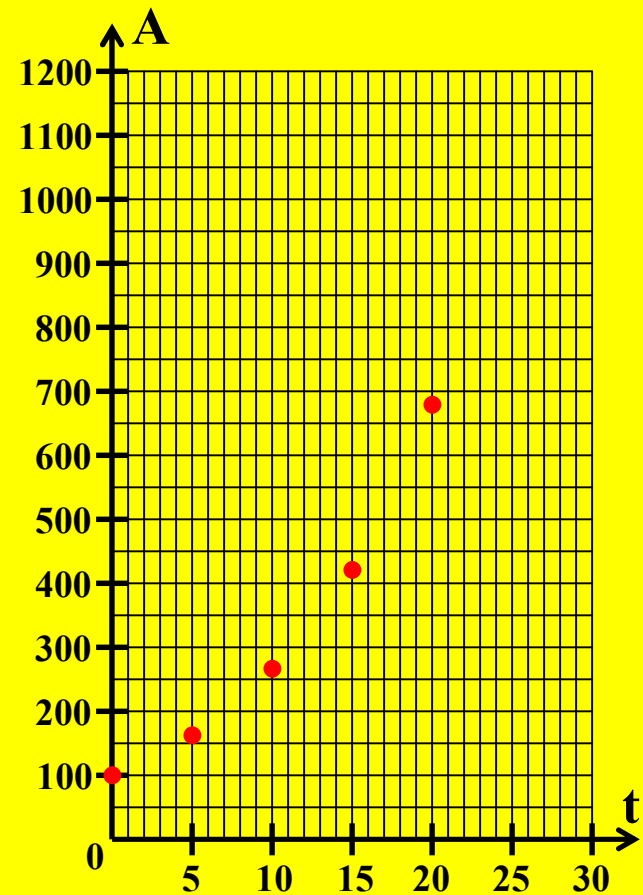


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t	A
0	100
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10	260
15	420
20	677
25	
30	

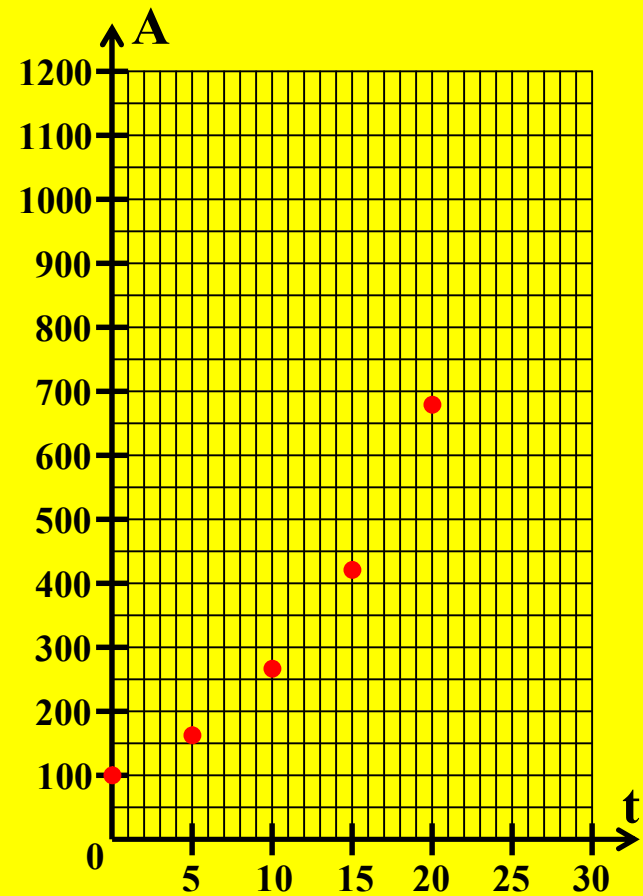


## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	



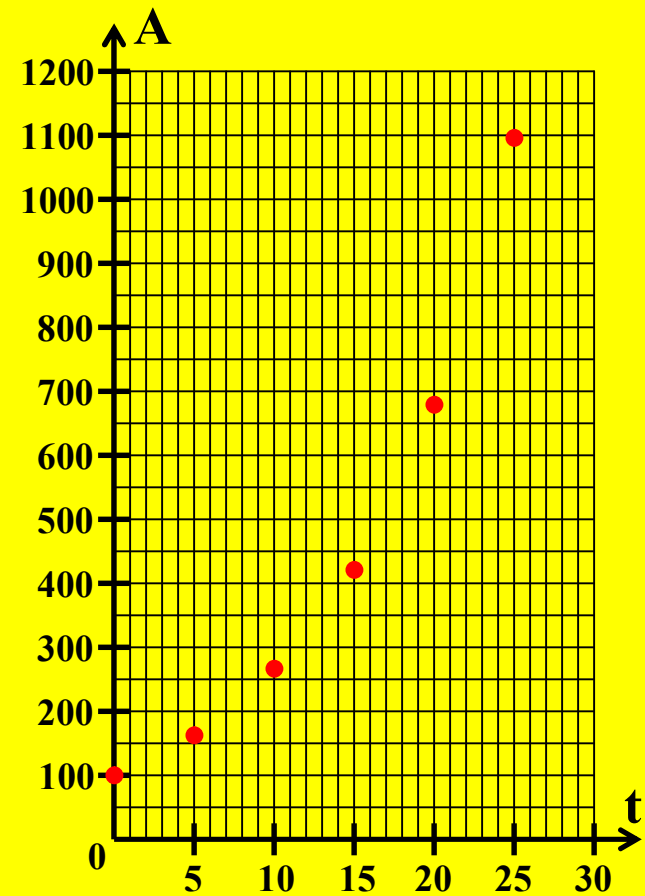


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3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	

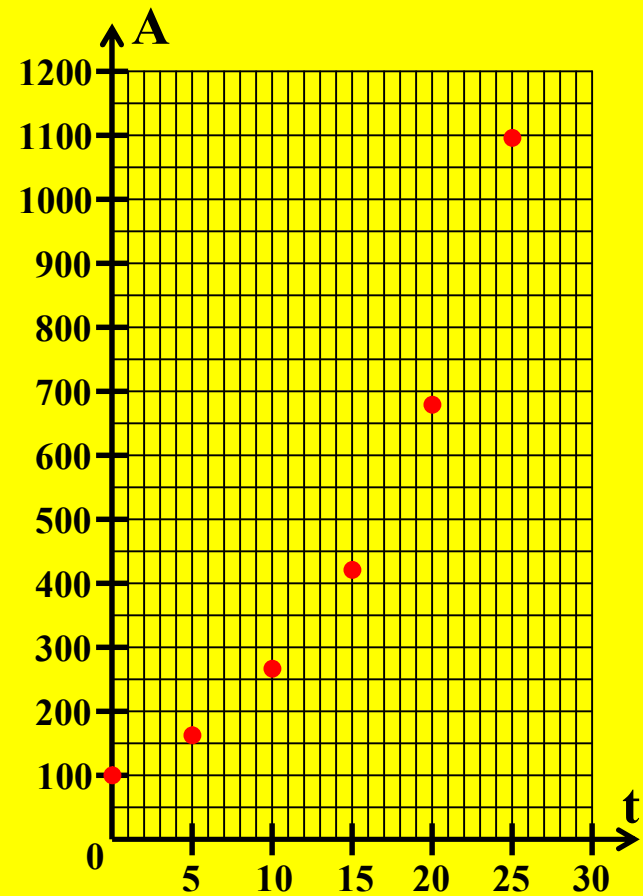


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3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	

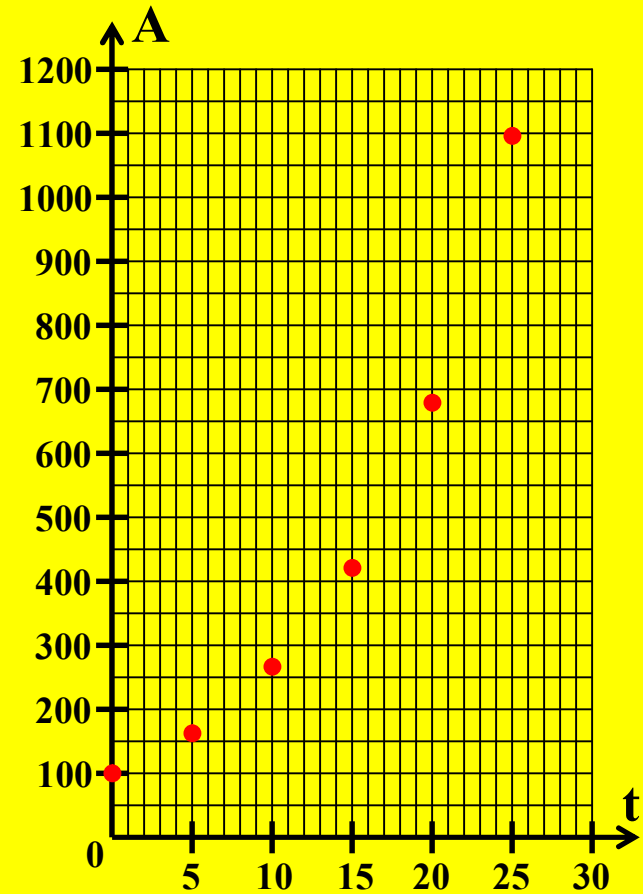


## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

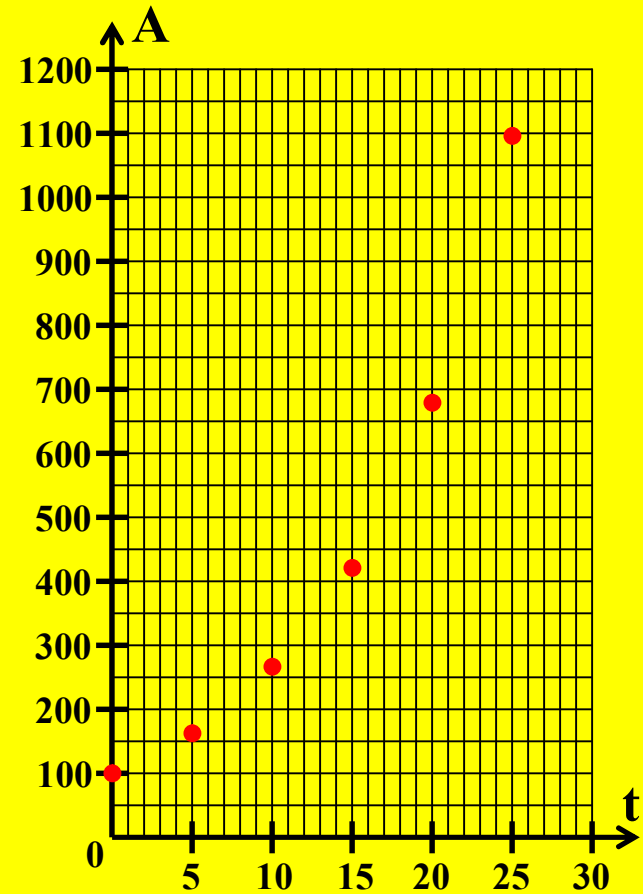


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Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

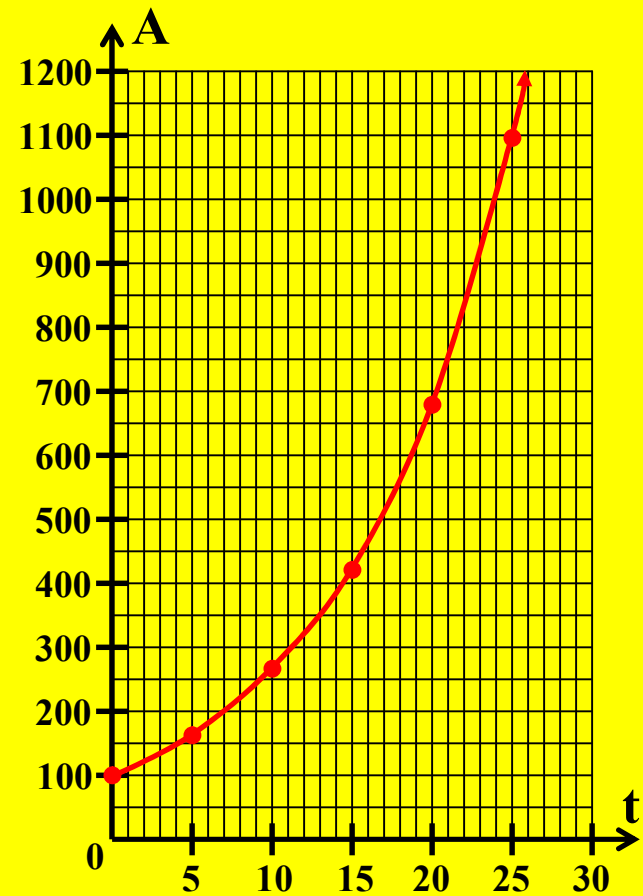


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Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

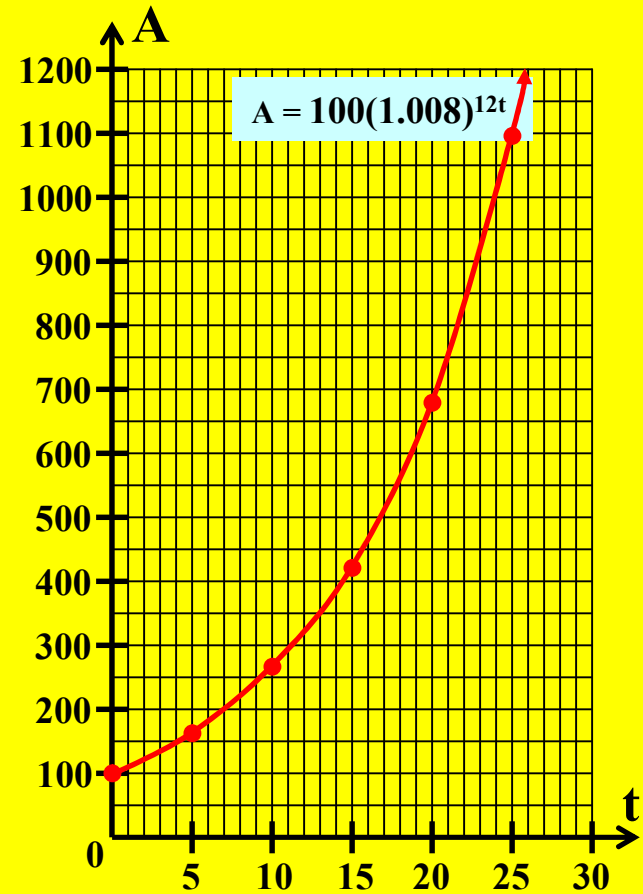


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Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761



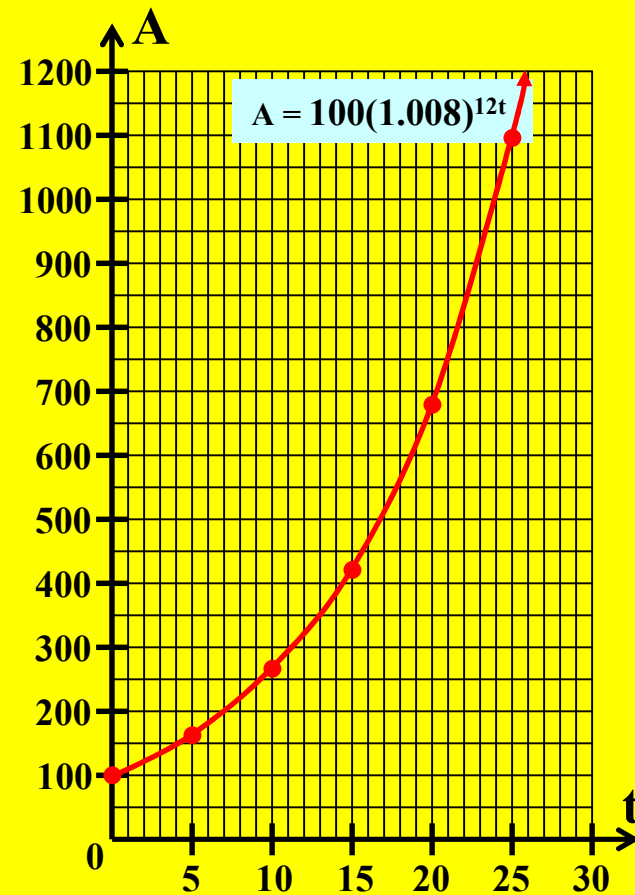
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Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

This functions illustrates 'exponential growth'.



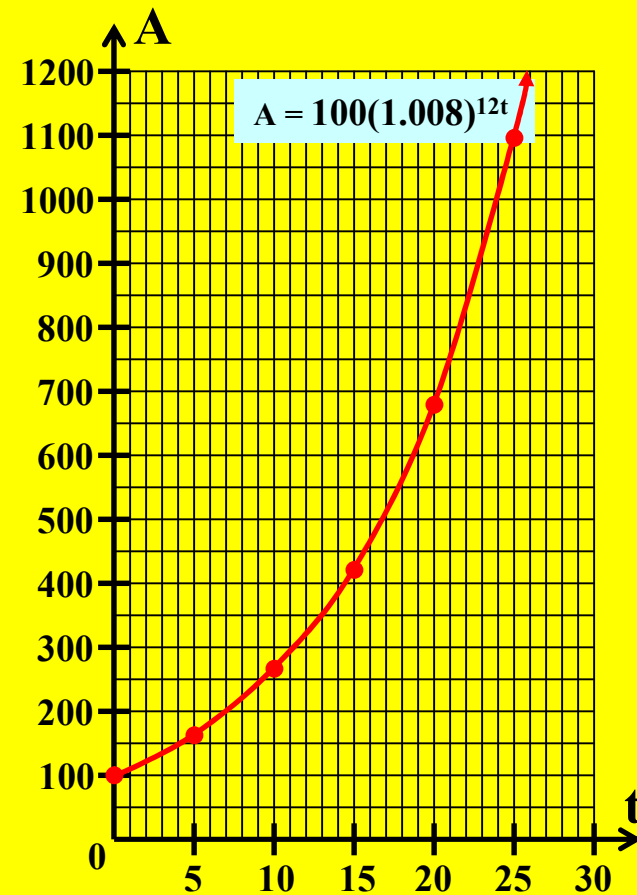
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Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

This functions illustrates ‘**exponential growth**’. Notice that the graph gets steeper as you move toward the right.



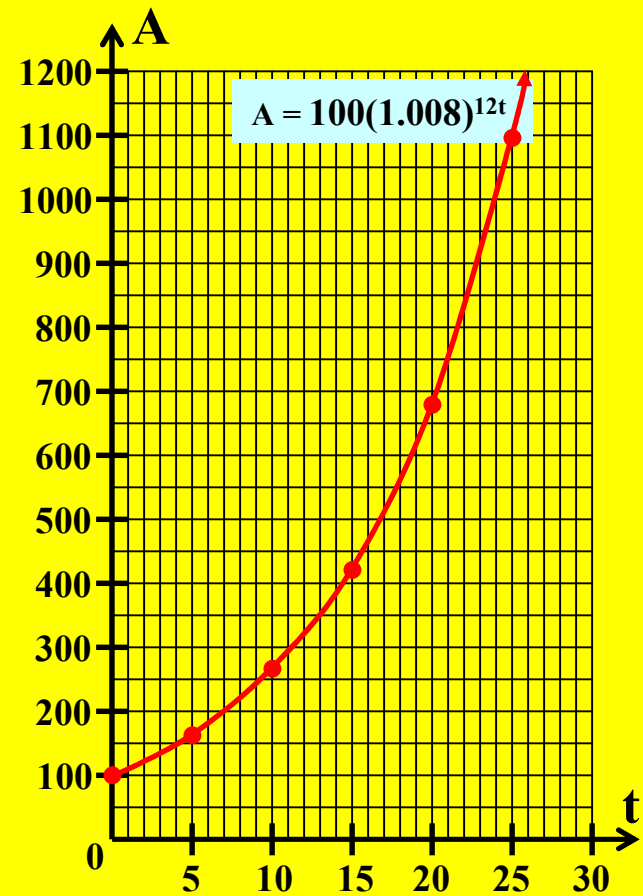


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t	A
0	100
5	161
10	260
15	420
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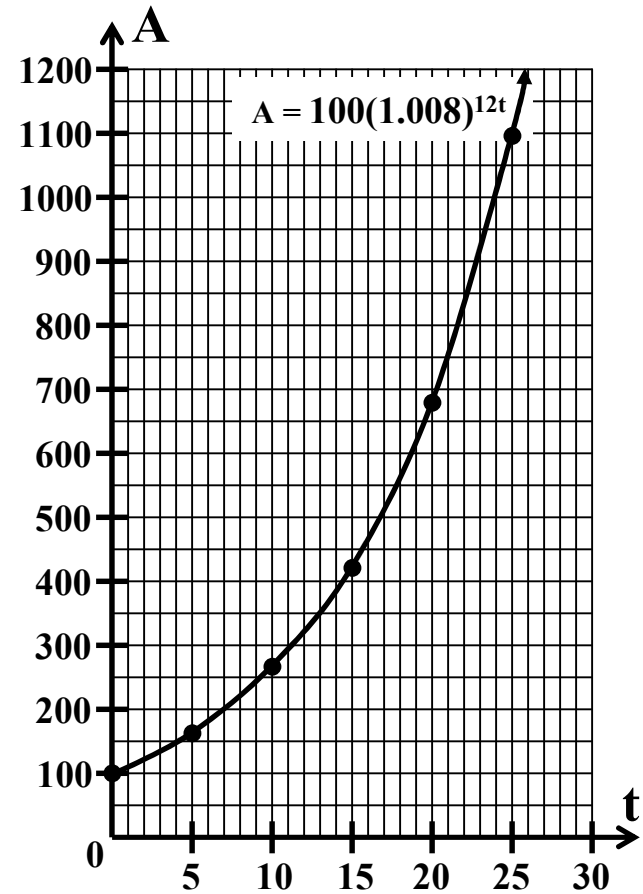


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t	A
0	100
5	161
10	260
15	420
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30	1761



## Algebra II Class Worksheet #3 Unit 10

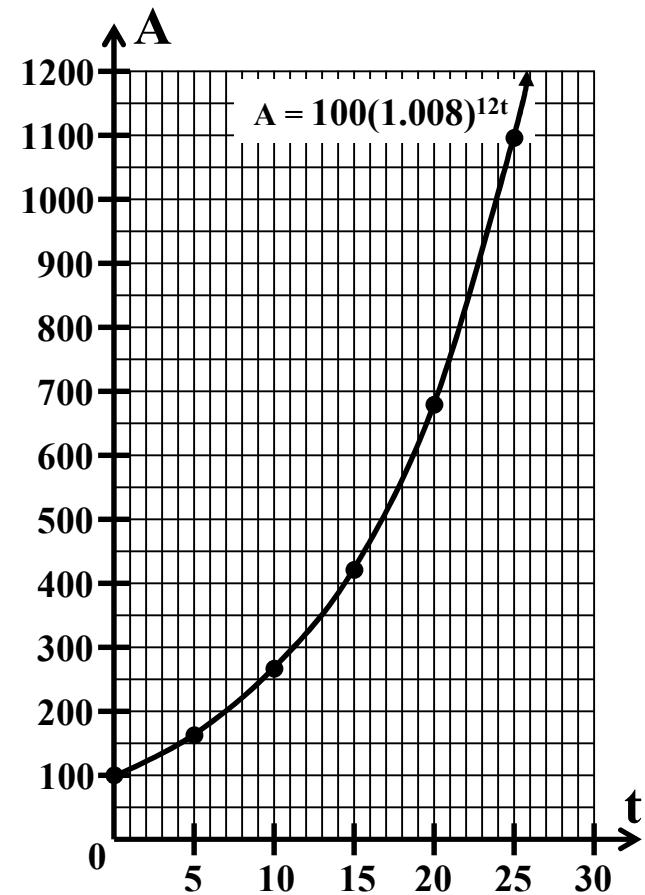
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{(-t/4)}$

t	A
0	
5	
10	
15	
20	
25	
30	



## Algebra II Class Worksheet #3 Unit 10

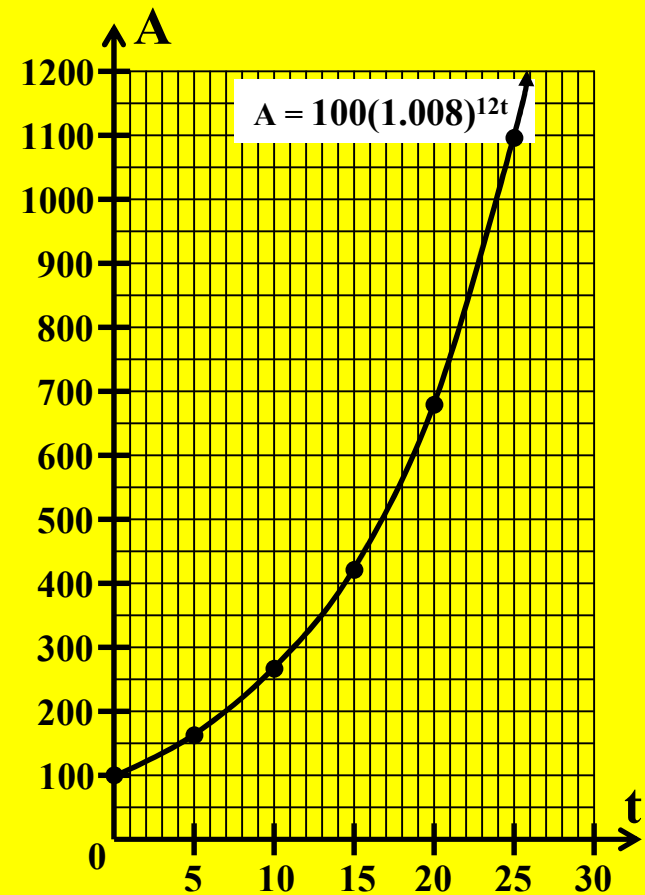
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	
5	
10	
15	
20	
25	
30	



## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

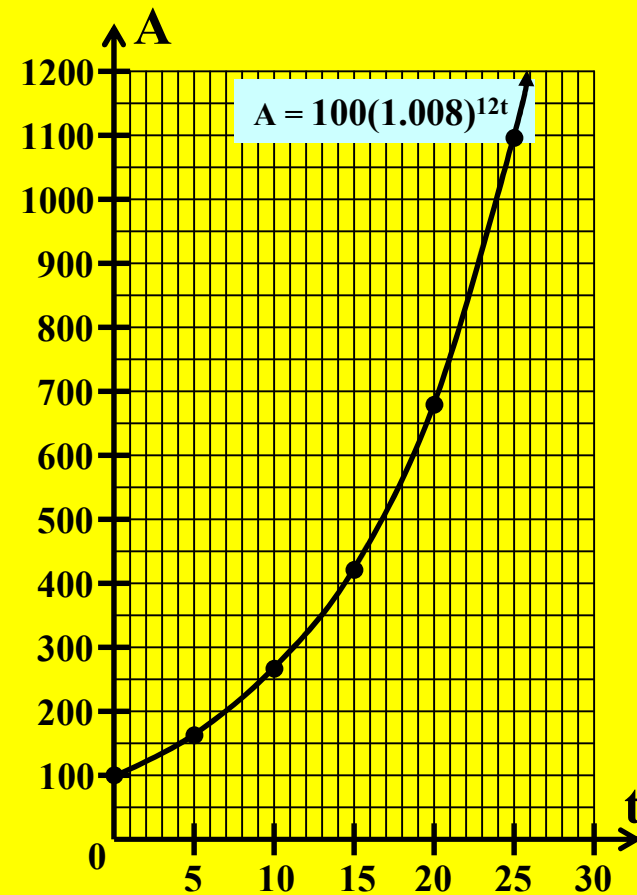
3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	
5	
10	
15	
20	
25	
30	

#4 is another example of an **exponential function**.



## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

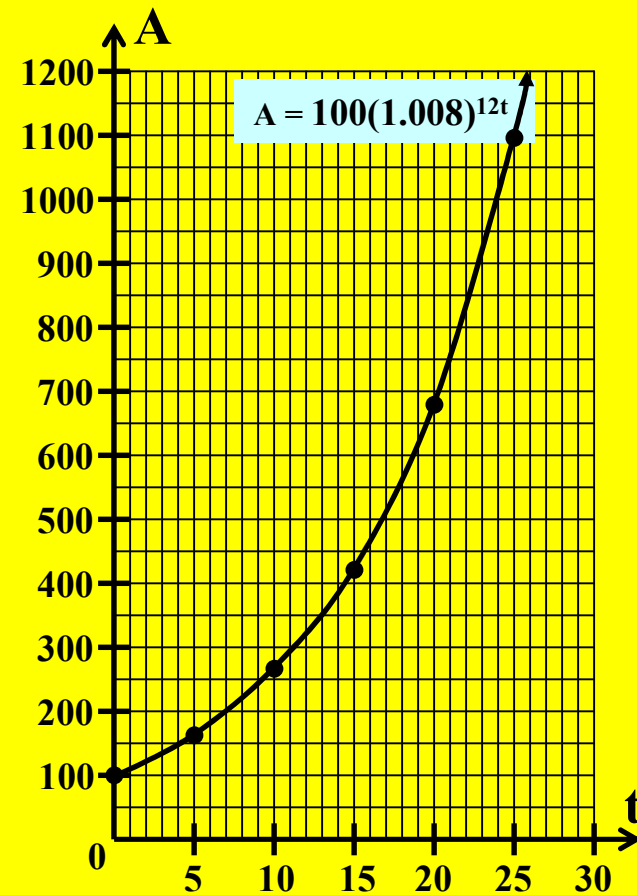
3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	
5	
10	
15	
20	
25	
30	

#4 is another example of an **exponential function**. We will fill out the table, plot the points, and then 'connect the dots'.



## Algebra II Class Worksheet #3 Unit 10

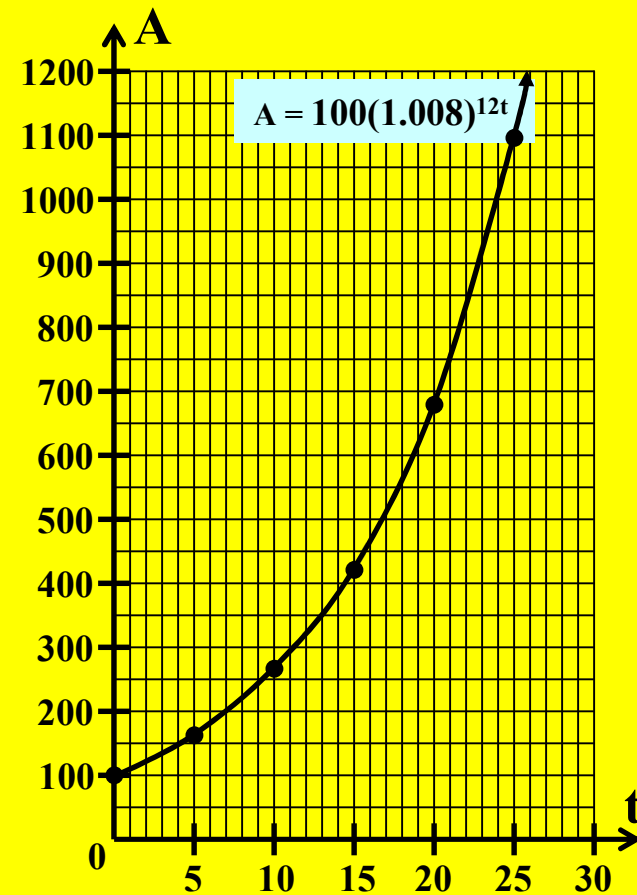
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3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	
5	
10	
15	
20	
25	
30	



## Algebra II Class Worksheet #3 Unit 10

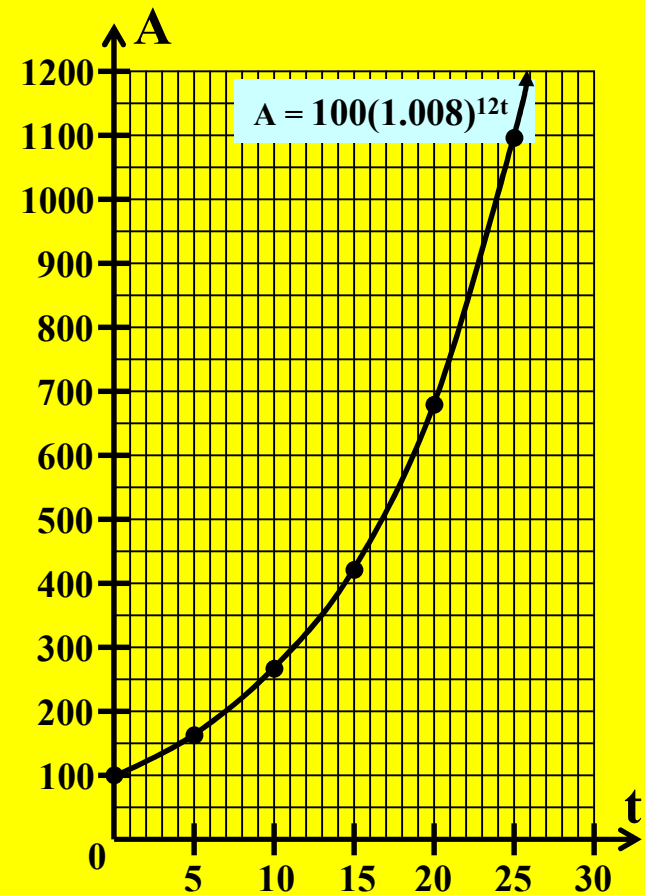
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	
5	
10	
15	
20	
25	
30	





## Algebra II Class Worksheet #3 Unit 10

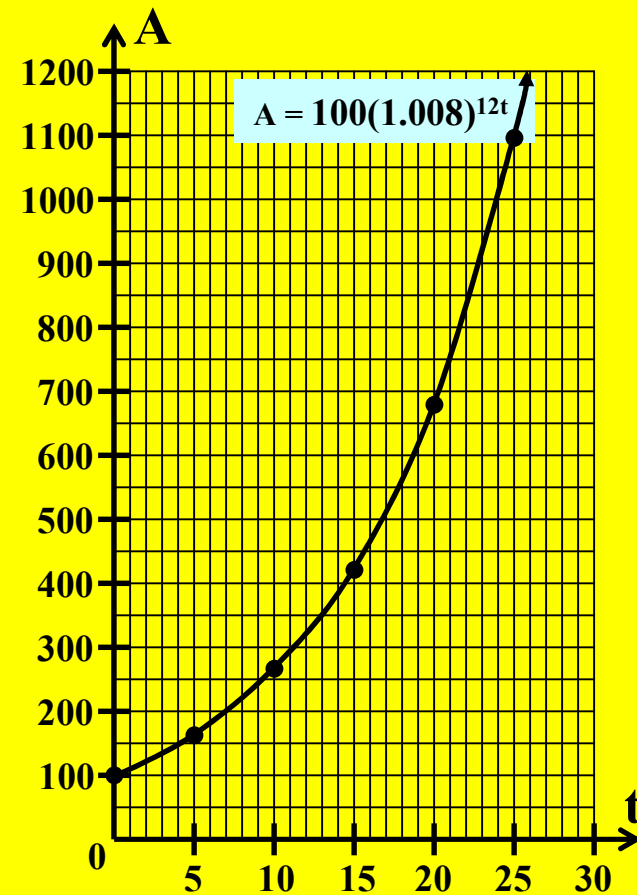
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	
10	
15	
20	
25	
30	



## Algebra II Class Worksheet #3 Unit 10

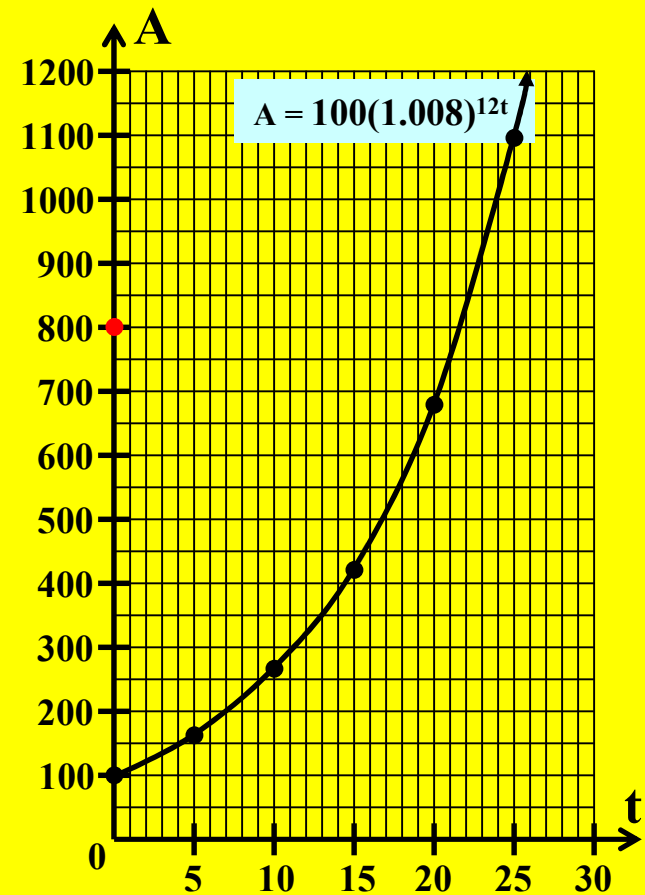
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	
10	
15	
20	
25	
30	



## Algebra II Class Worksheet #3 Unit 10

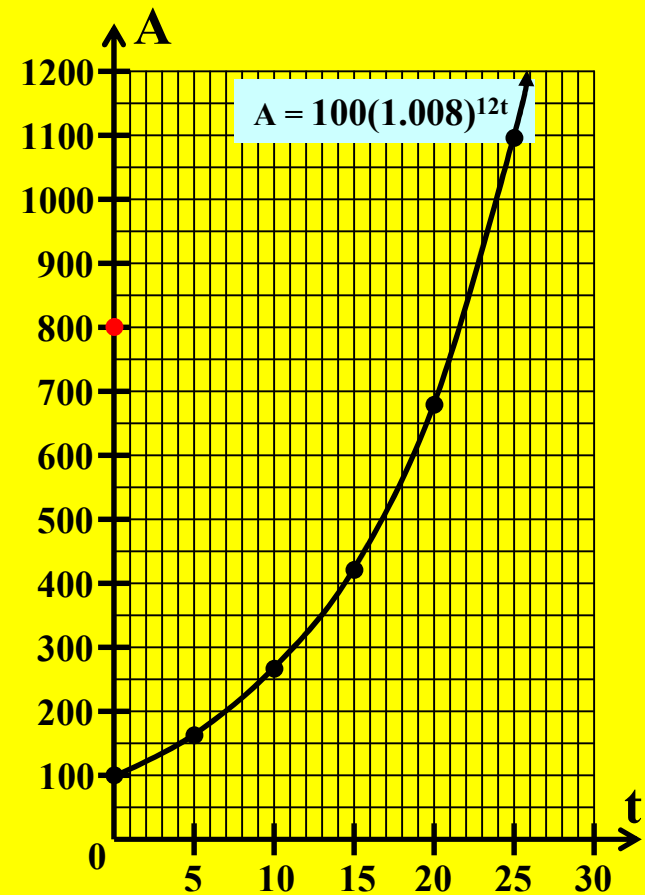
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	
10	
15	
20	
25	
30	



## Algebra II Class Worksheet #3 Unit 10

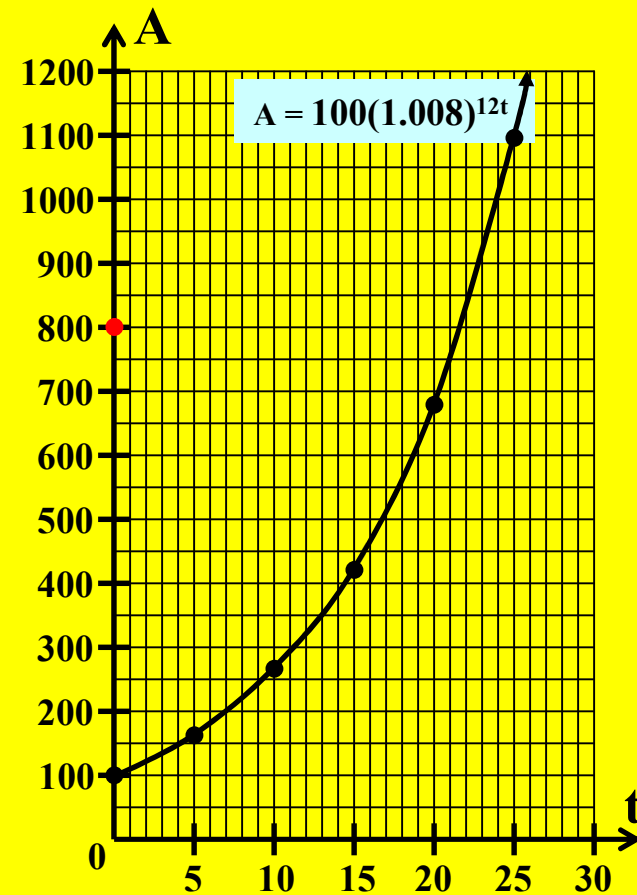
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	336
10	
15	
20	
25	
30	



## Algebra II Class Worksheet #3 Unit 10

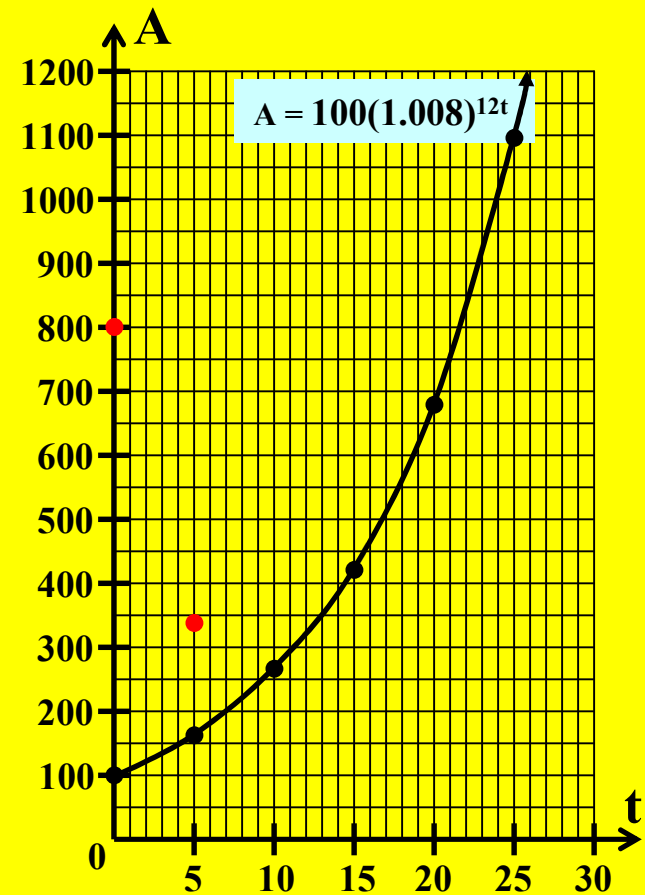
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	336
10	
15	
20	
25	
30	



## Algebra II Class Worksheet #3 Unit 10

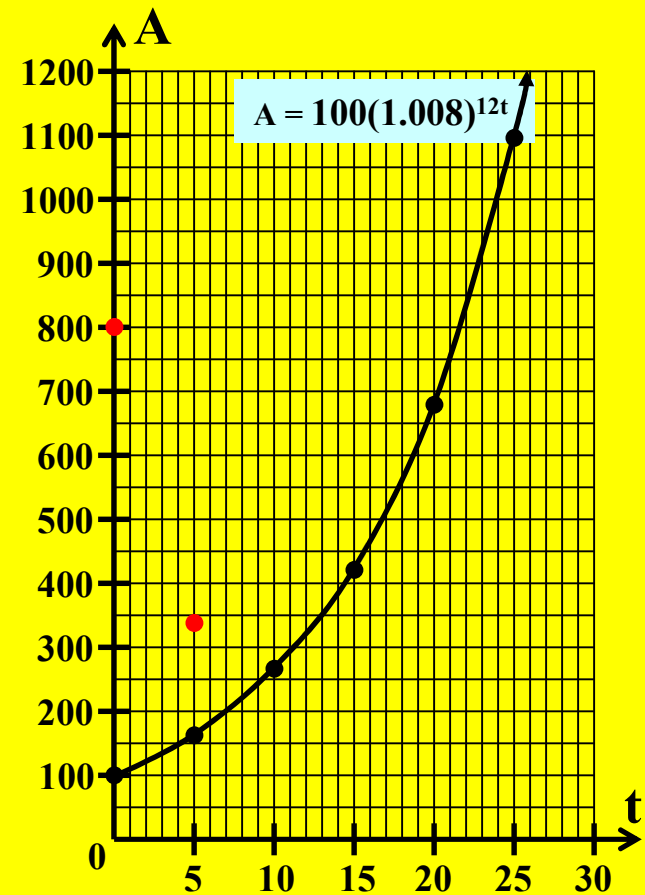
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	336
10	136
15	54
20	21
25	8
30	3



## Algebra II Class Worksheet #3 Unit 10

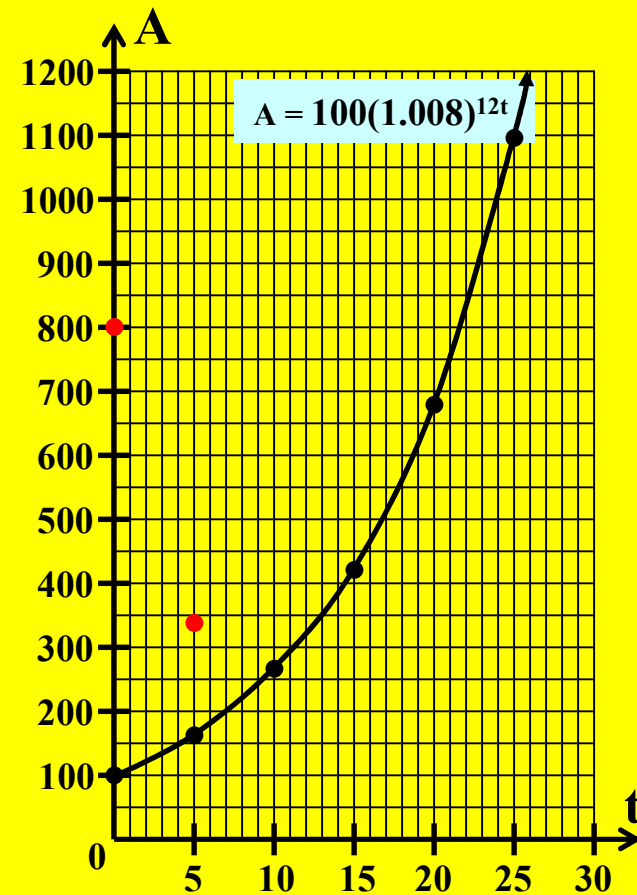
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	336
10	141
15	
20	
25	
30	



## Algebra II Class Worksheet #3 Unit 10

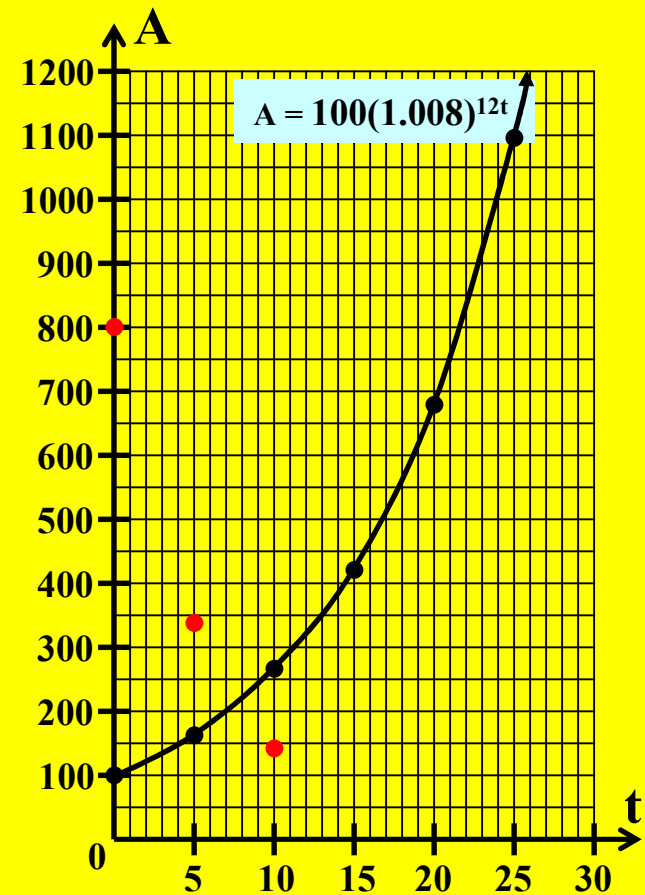
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{(-t/4)}$

t	A
0	800
5	336
10	141
15	
20	
25	
30	





## Algebra II Class Worksheet #3 Unit 10

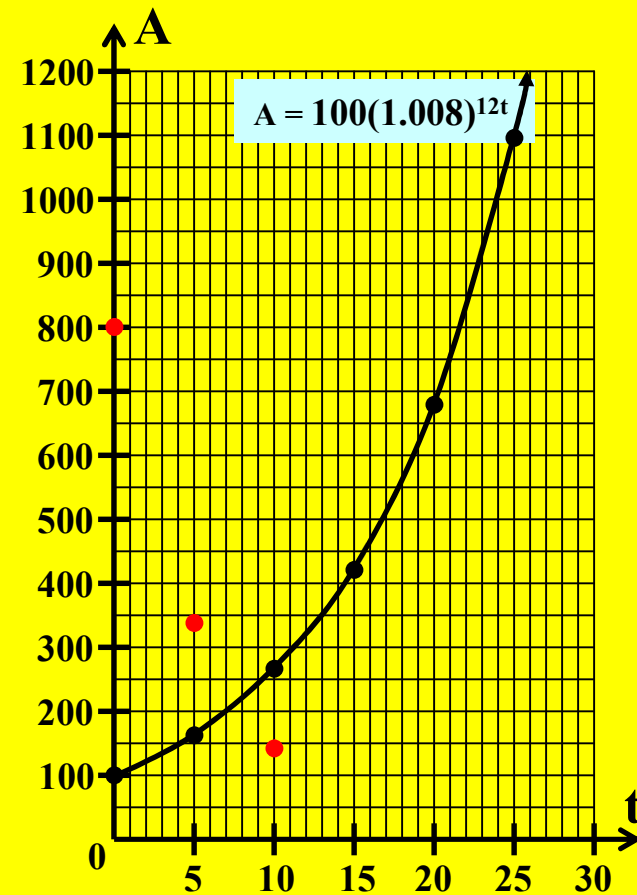
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	336
10	141
15	
20	
25	
30	



## Algebra II Class Worksheet #3 Unit 10

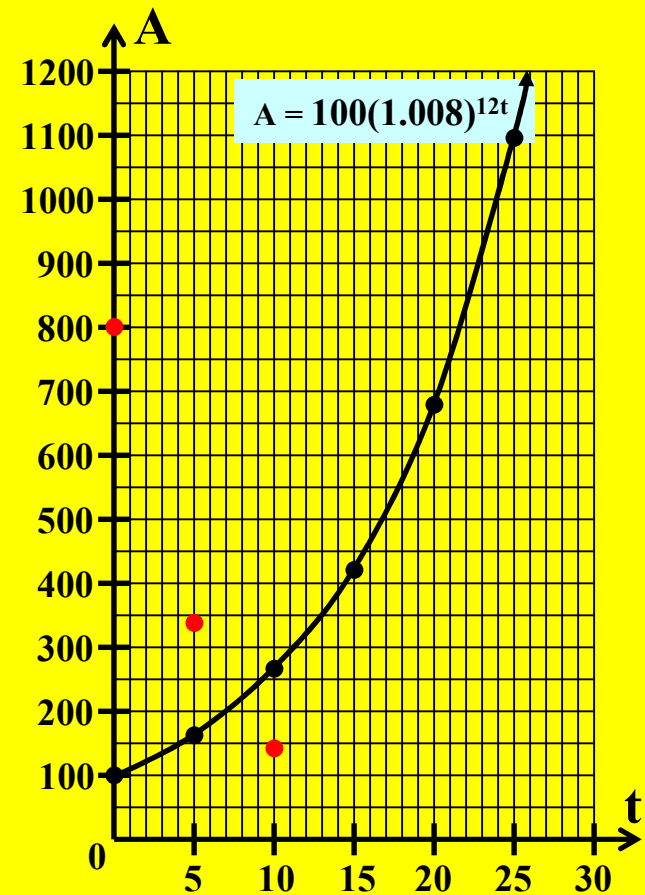
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	336
10	141
15	59.5
20	
25	
30	



## Algebra II Class Worksheet #3 Unit 10

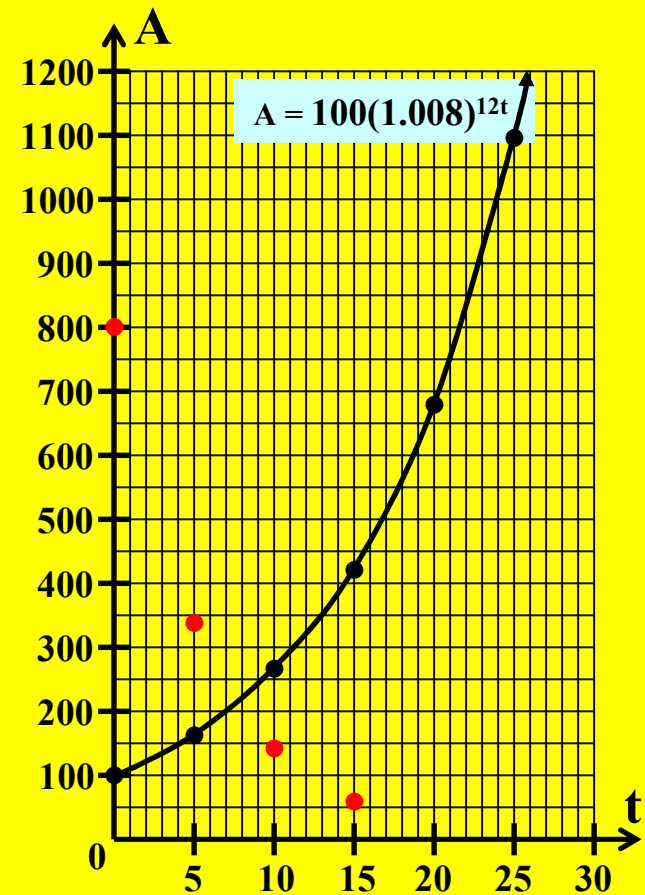
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	336
10	141
15	59.5
20	
25	
30	



## Algebra II Class Worksheet #3 Unit 10

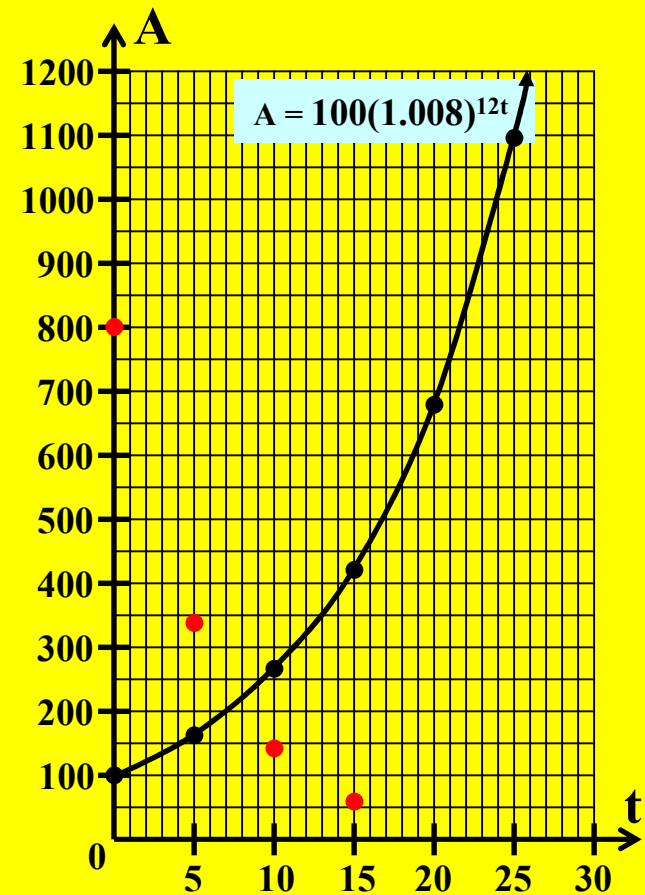
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25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	336
10	141
15	59.5
20	
25	
30	



## Algebra II Class Worksheet #3 Unit 10

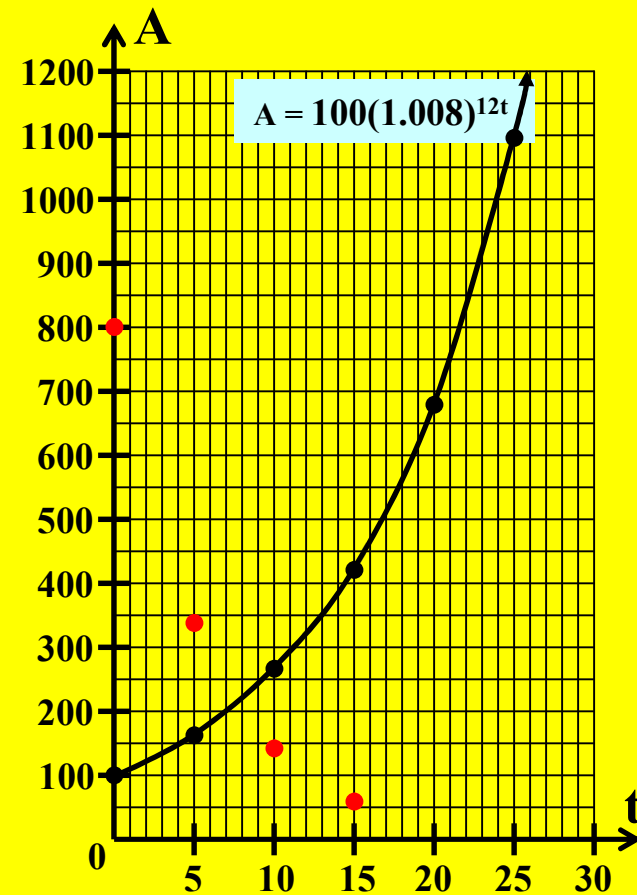
Sketch a graph of each of the following.

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t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	336
10	141
15	59.5
20	25
25	
30	



## Algebra II Class Worksheet #3 Unit 10

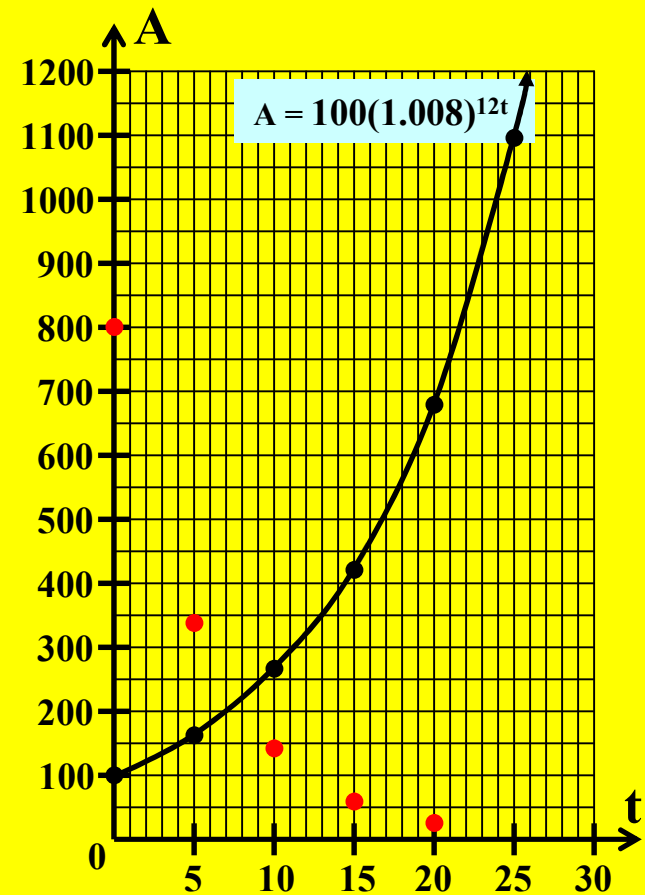
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	336
10	141
15	59.5
20	25
25	
30	



## Algebra II Class Worksheet #3 Unit 10

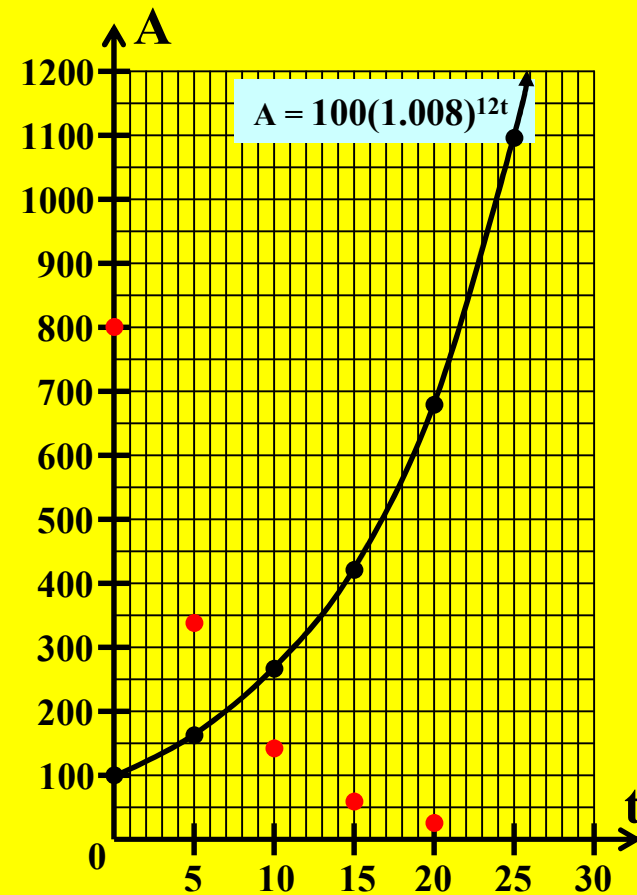
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	336
10	141
15	59.5
20	25
25	
30	



## Algebra II Class Worksheet #3 Unit 10

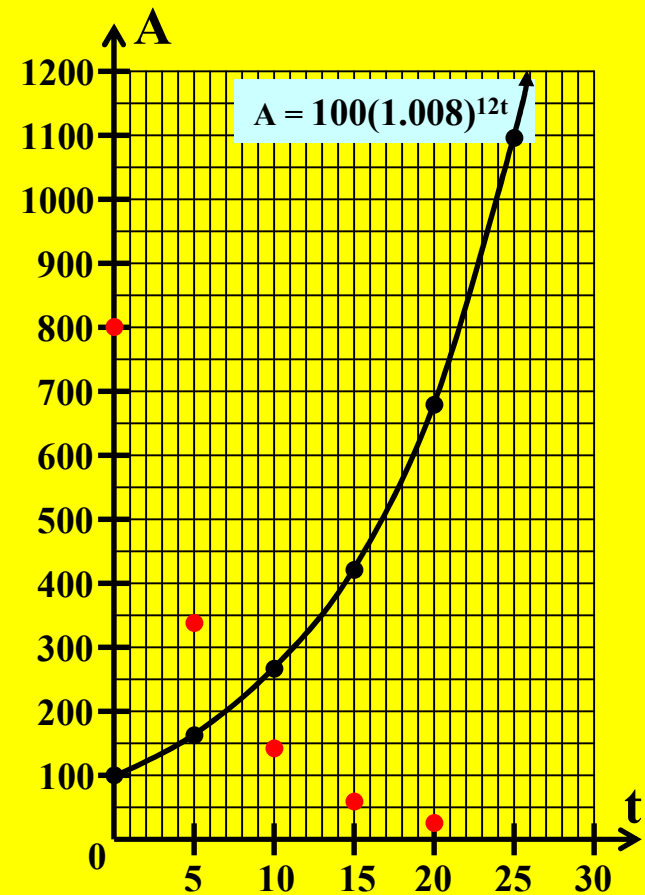
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t	A
0	100
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10	260
15	420
20	677
25	1092
30	1761

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t	A
0	800
5	336
10	141
15	59.5
20	25
25	10.5
30	





## Algebra II Class Worksheet #3 Unit 10

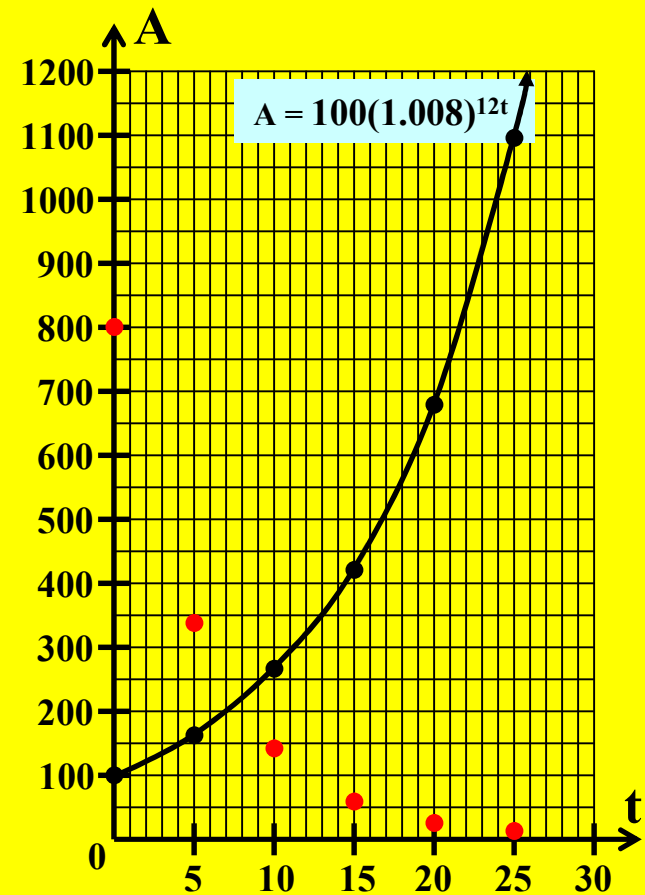
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	336
10	141
15	59.5
20	25
25	10.5
30	



## Algebra II Class Worksheet #3 Unit 10

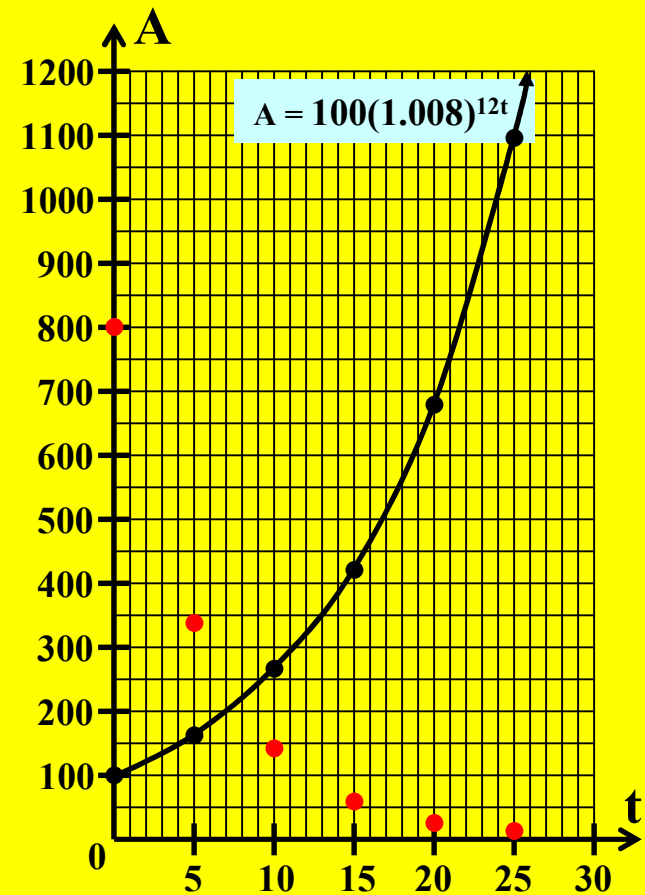
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	336
10	141
15	59.5
20	25
25	10.5
30	



## Algebra II Class Worksheet #3 Unit 10

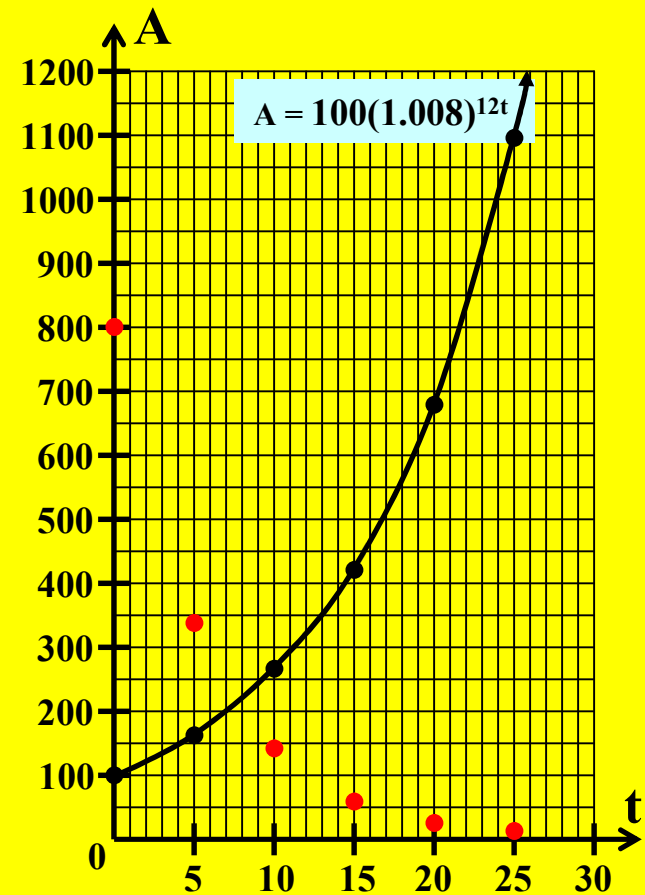
Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	336
10	141
15	59.5
20	25
25	10.5
30	4.42



## Algebra II Class Worksheet #3 Unit 10

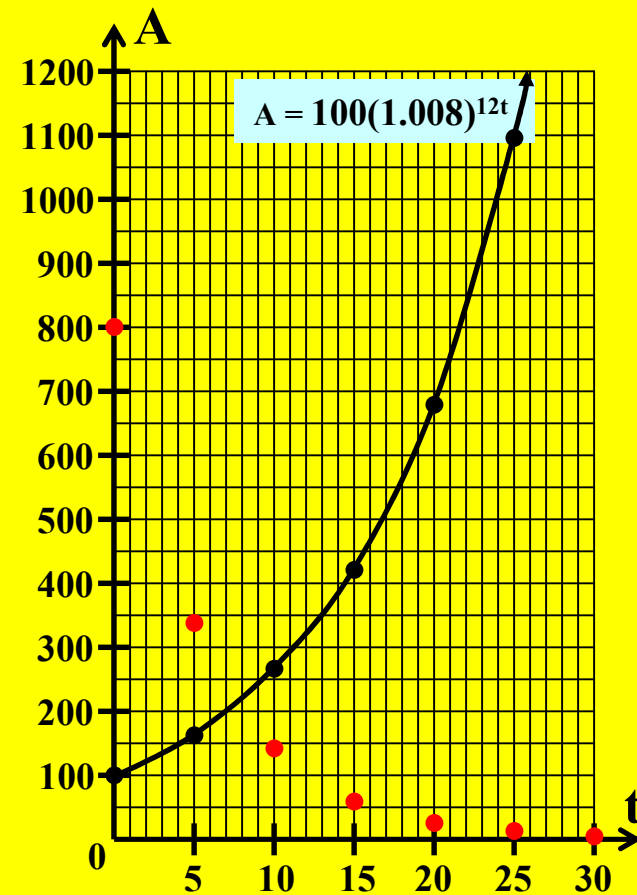
Sketch a graph of each of the following.

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t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-(t/4)}$

t	A
0	800
5	336
10	141
15	59.5
20	25
25	10.5
30	4.42



## Algebra II Class Worksheet #3 Unit 10

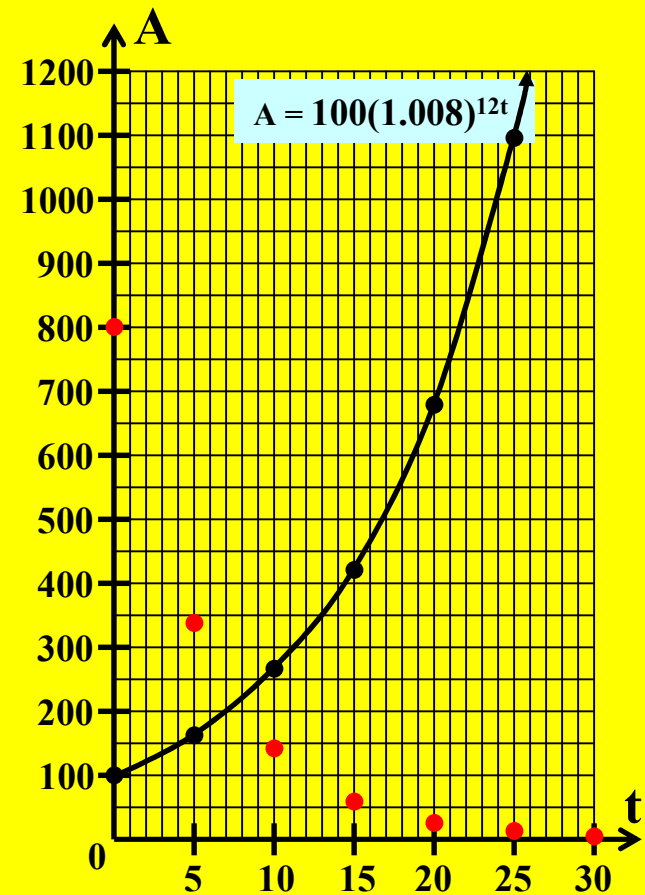
Sketch a graph of each of the following.

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t	A
0	100
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t	A
0	800
5	336
10	141
15	59.5
20	25
25	10.5
30	4.42



## Algebra II Class Worksheet #3 Unit 10

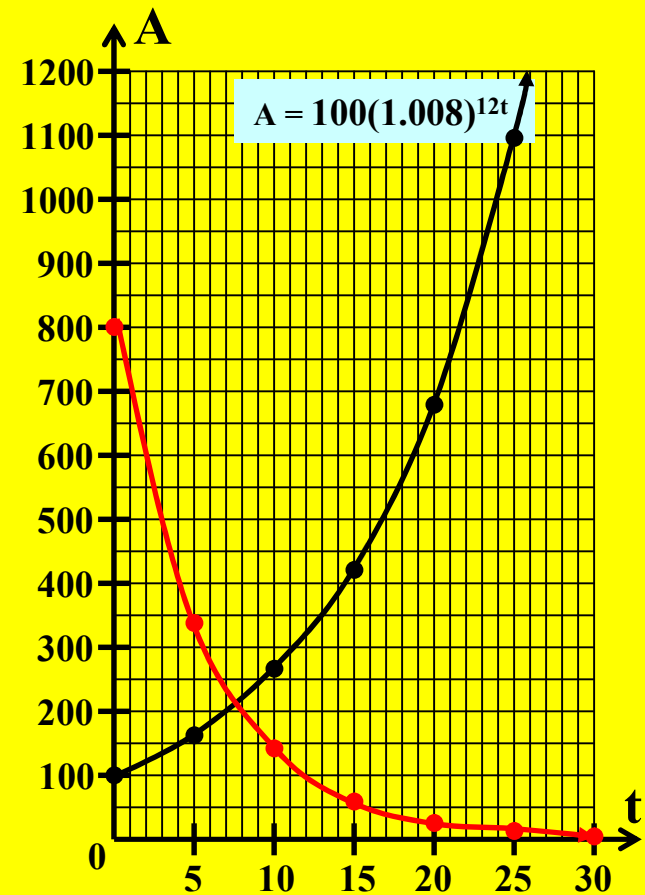
Sketch a graph of each of the following.

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t	A
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10	260
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25	1092
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t	A
0	800
5	336
10	141
15	59.5
20	25
25	10.5
30	4.42



## Algebra II Class Worksheet #3 Unit 10

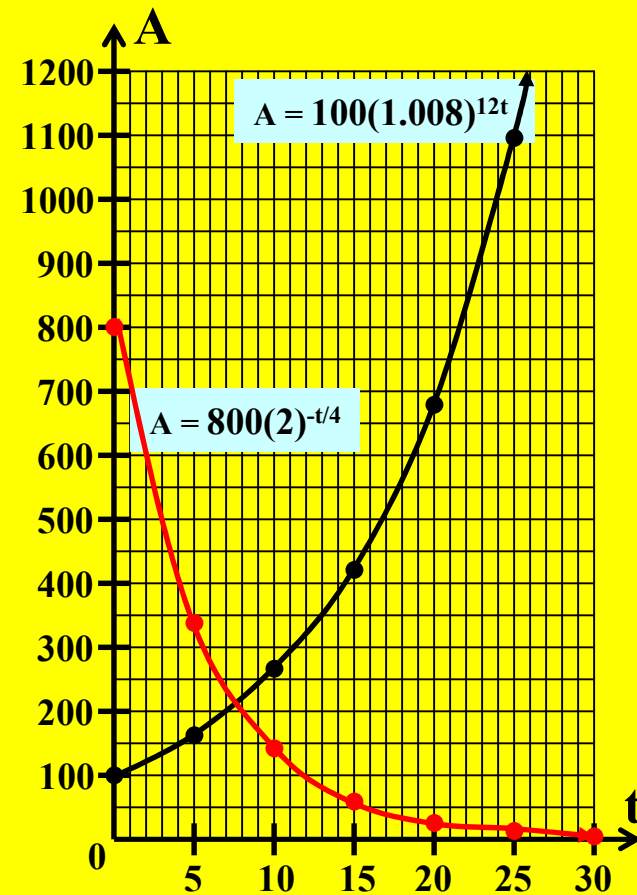
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t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-t/4}$

t	A
0	800
5	336
10	141
15	59.5
20	25
25	10.5
30	4.42



## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

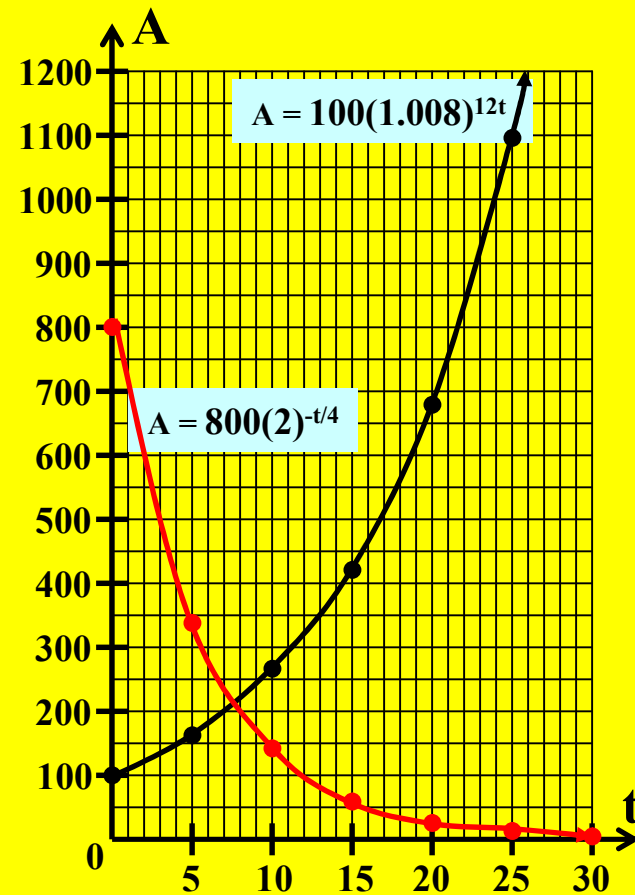
3.  $A = 100(1.008)^{12t}$

t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-t/4}$

t	A
0	800
5	336
10	141
15	59.5
20	25
25	10.5
30	4.42

#4 is an example of exponential decay.





## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

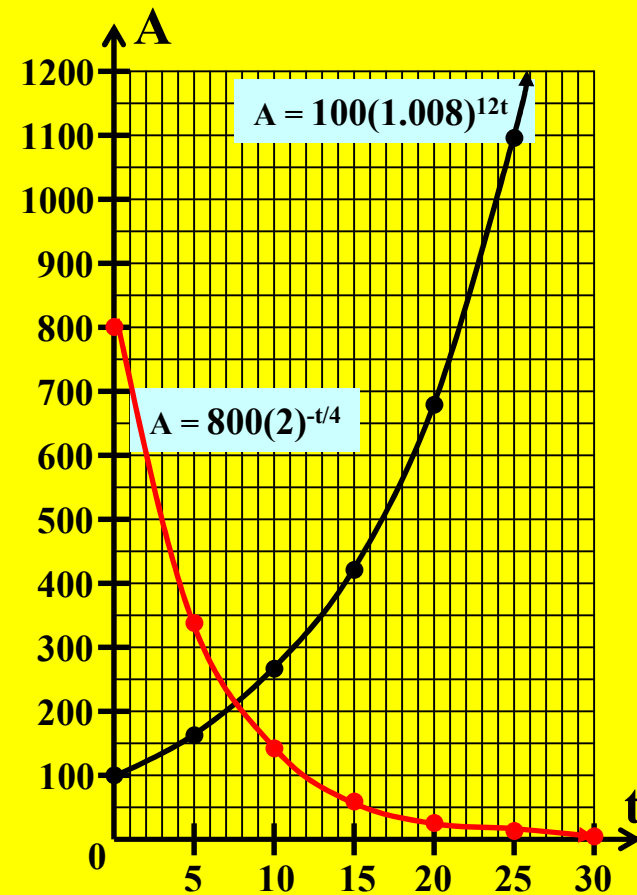
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0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-t/4}$

t	A
0	800
5	336
10	141
15	59.5
20	25
25	10.5
30	4.42

#4 is an example of exponential decay.

$$2^{-t/4} = (1/2)^{(t/4)}$$



## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

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t	A
0	100
5	161
10	260
15	420
20	677
25	1092
30	1761

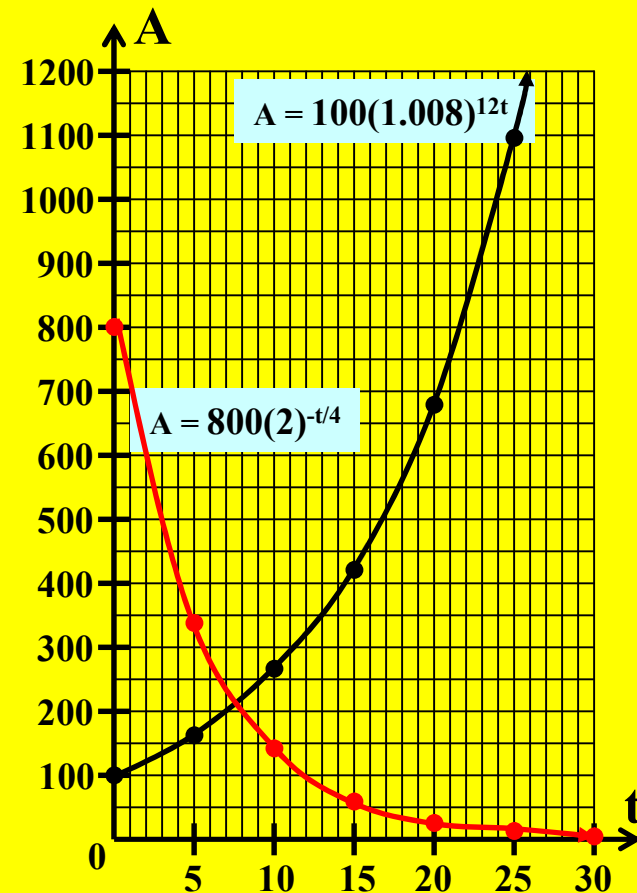
4.  $A = 800(2)^{-t/4}$

t	A
0	800
5	336
10	141
15	59.5
20	25
25	10.5
30	4.42

#4 is an example of exponential decay.

$$2^{-t/4} = (1/2)^{(t/4)}$$

As the value of t increases, the value of A gets closer to 0.



## Algebra II Class Worksheet #3 Unit 10

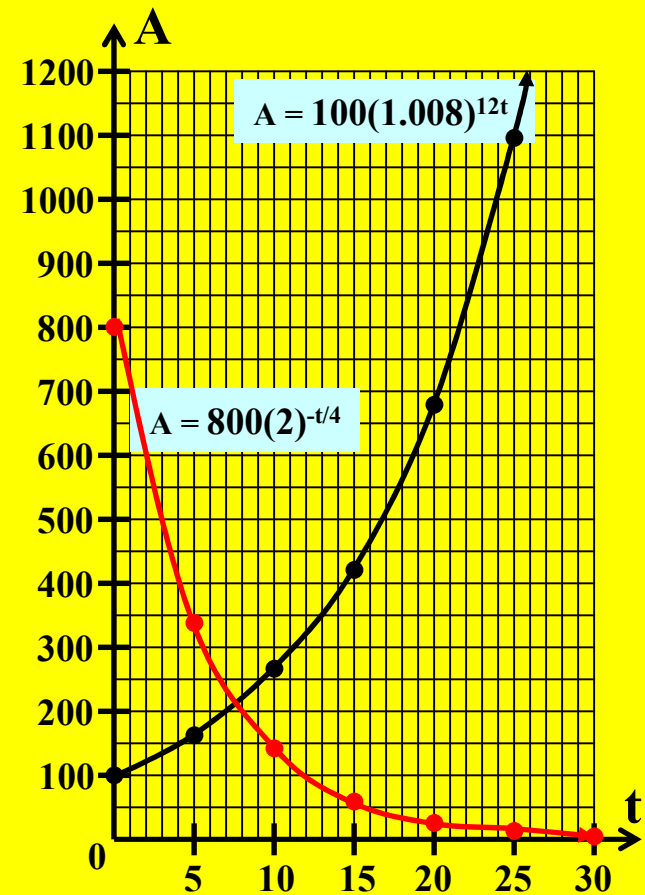
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t	A
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10	260
15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-t/4}$

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0	800
5	336
10	141
15	59.5
20	25
25	10.5
30	4.42



## Algebra II Class Worksheet #3 Unit 10

Sketch a graph of each of the following.

3.  $A = 100(1.008)^{12t}$

t	A
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5	161
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15	420
20	677
25	1092
30	1761

4.  $A = 800(2)^{-t/4}$

t	A
0	800
5	336
10	141
15	59.5
20	25
25	10.5
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