

Precalc Warm Up – 9/28/10

Name: _____ Period: _____

1) Evaluate the following expressions:

a. $2^{-3} =$

b. $3^{-2} =$

c. $5(3^{-2}) =$

d. $\left(\frac{3}{2}\right)^{-2} =$

e. $4\left(\frac{2}{3}\right)^{-1} =$

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Precalc Graphing Exponential Functions

CONCEPT BUILDER

Name: _____ Date: _____ Period: _____

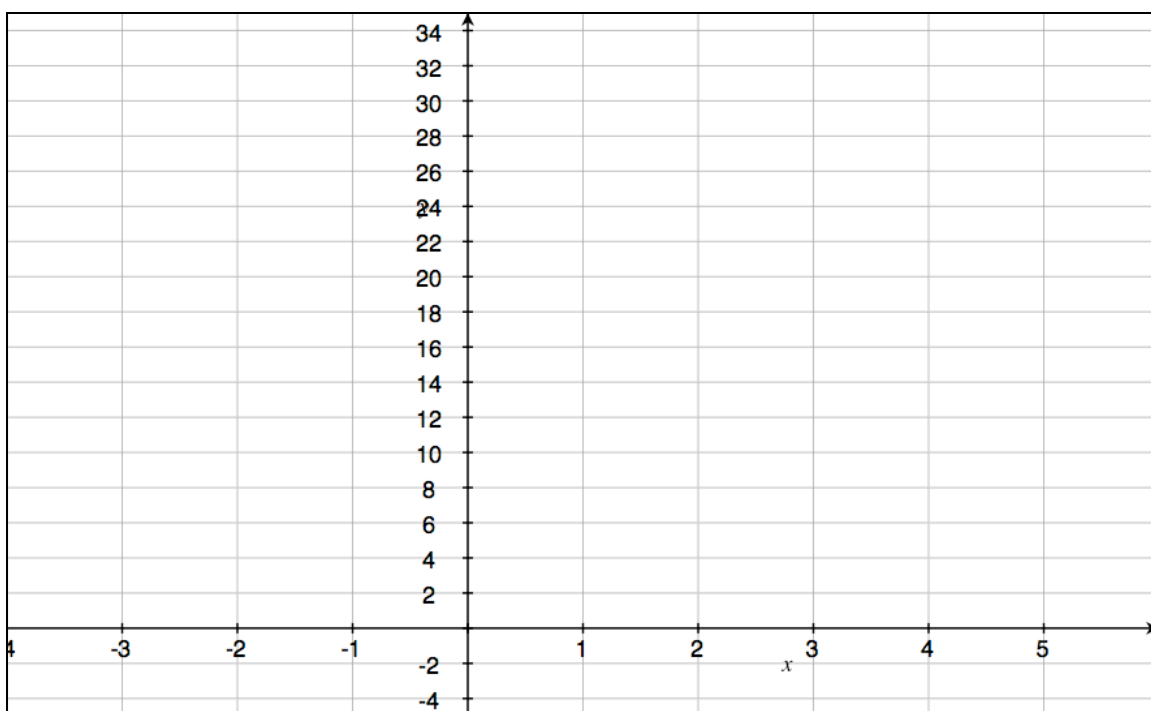
Students will be able to graph an exponential function (including negative x-values) by creating a table and plotting points.

Consider the function $f(x) = 2^x$

We will sketch $f(x)$ by making a table, graphing points and connecting those points on the graph.

TABLE

x	$f(x)$
-2	$2^{-2} = \frac{1}{2^2} = \frac{1}{4} = 0.25$
-1	
0	
1	
2	
3	
4	
5	



y-intercept:

End behavior:

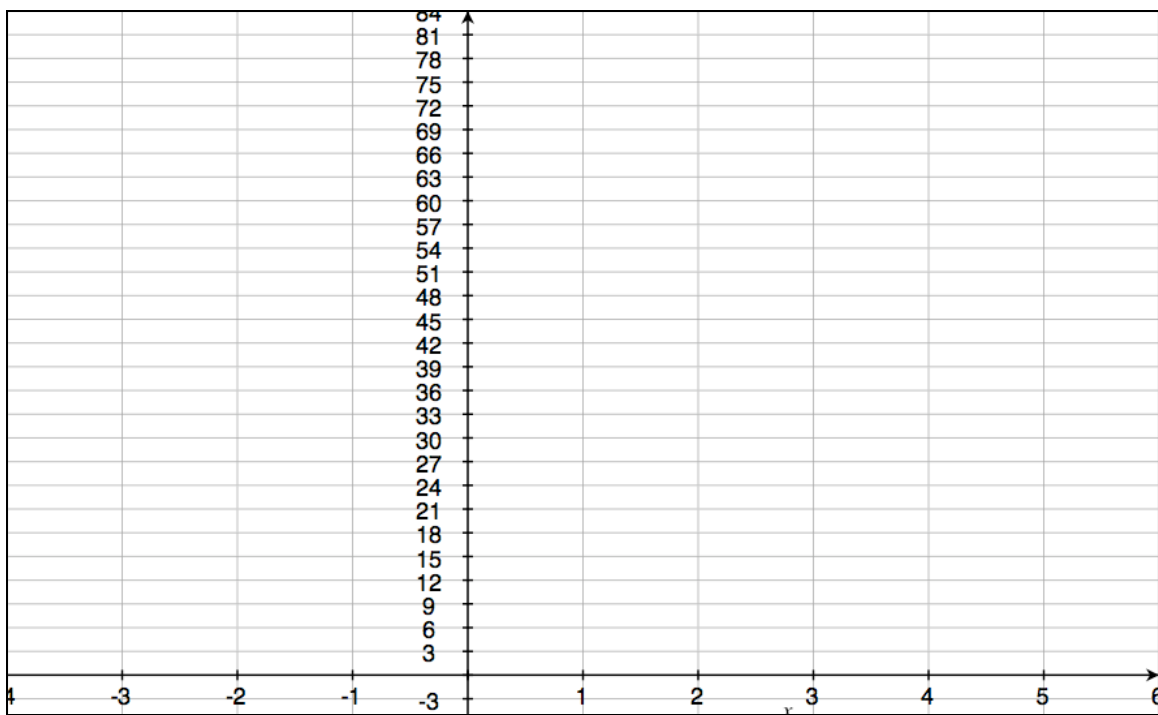
Practice Problem #1

Consider the function $f(x) = 3^x$

Sketch $f(x)$ by making a table, graphing points and connecting those points on the graph.

TABLE

x	$f(x)$
-2	
-1	
0	
1	
2	
3	
4	
5	

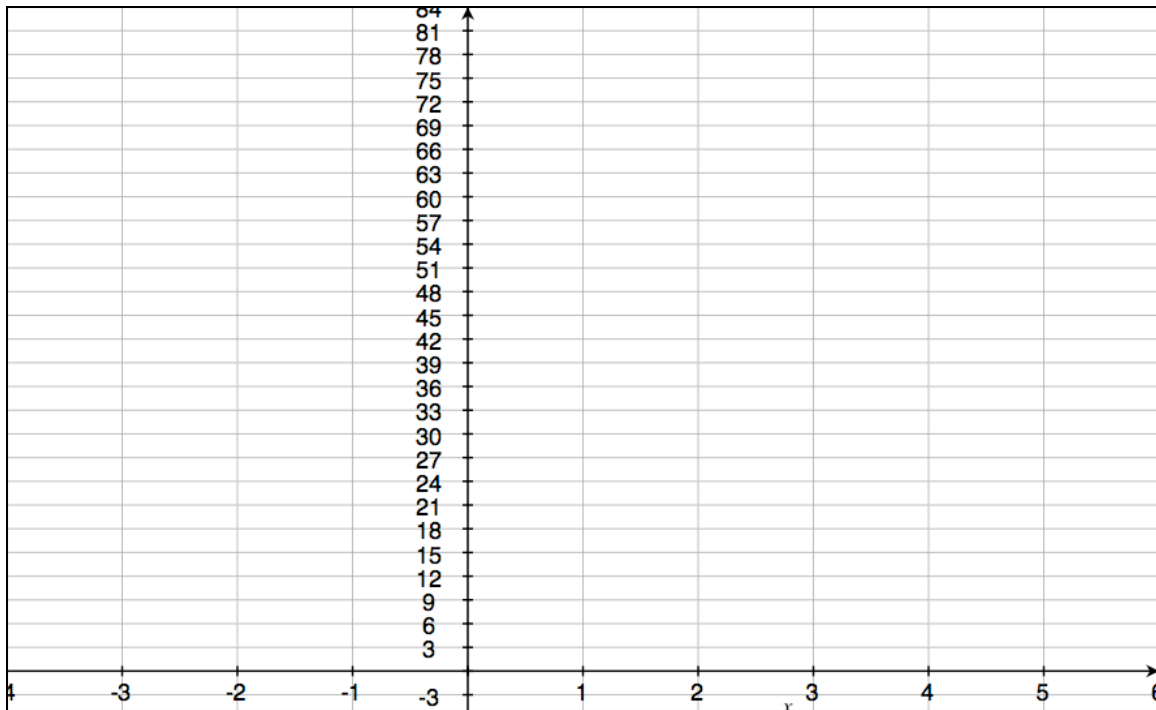


y-intercept:

End behavior:

Practice Problem #2

Sketch the graph of $f(x) = 2(3^x)$ and identify the important features.

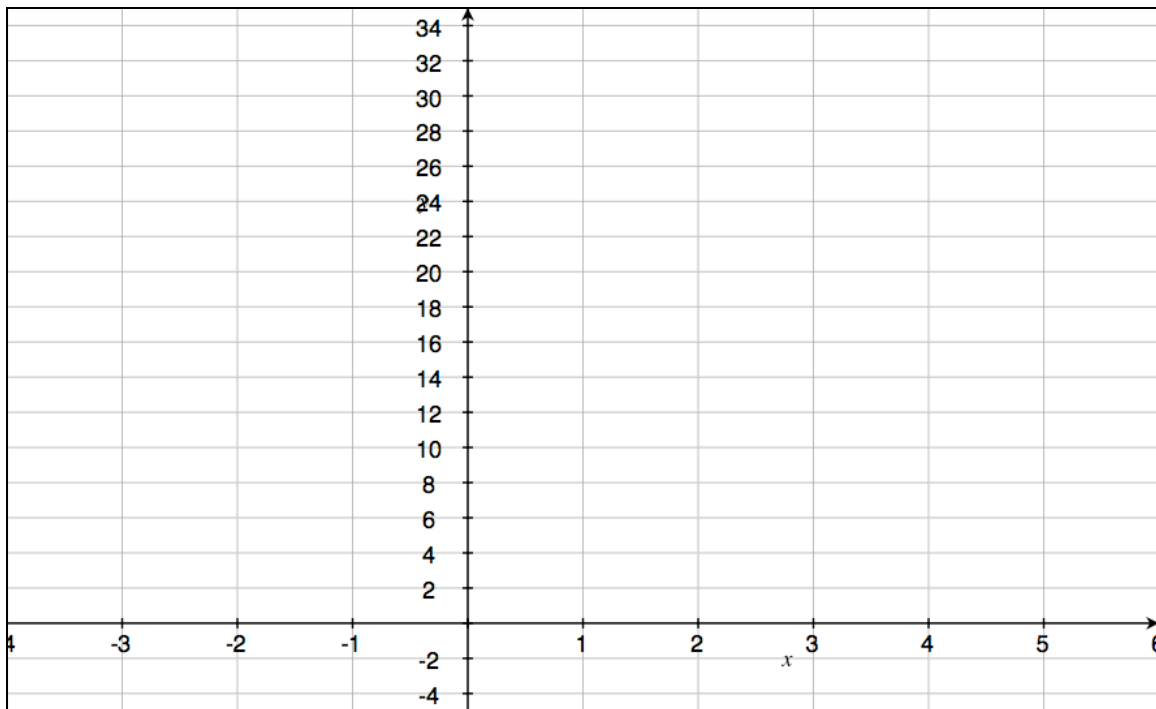


y-intercept:

End behavior:

Practice Problem #3

Sketch the graph of $f(x) = 2^{-x}$ and identify the important features.



y-intercept:

End behavior:

Precalc – Exit Slip – 9/28/10

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Graph the following functions on the graph below:

$$f(x) = 2^x$$

$$g(x) = 3(2^x)$$

