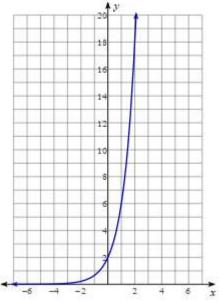
Lesson 2.3 Notes

1. Write the equation of the graph:



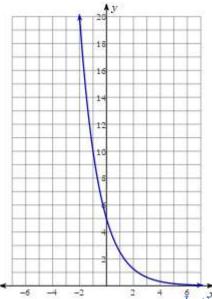
In order to write the equation of a graph, we should write a table of points where the line crosses the grid. We know that this function is exponential, so we are looking for the constant ratio and the f(0).



After we write out the points, it is easy to see that the constant ratio is 3 and the f(0) = 2.

So, the explicit equation is $f(x) = 3^x \cdot 2$

2. Write the equation of the graph:



In order to write the equation of a graph, we should write a table of points where the line crosses the grid. We know that this function is exponential, so we are looking for the constant ratio and the f(0).

x	f(x)
-1	10
0	5
1	2.5

After we write out the points, it is easy to see that the constant ratio is $\frac{1}{2}$ and the f(0) = 5.

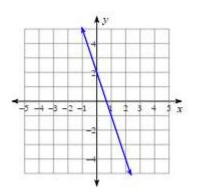
So, the explicit equation is $f(x) = \left(\frac{1}{2}\right)^x \cdot 5$

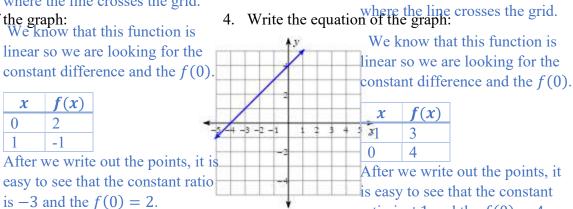
Let's write a table of points where the line crosses the grid.

3. Write the equation of the graph: We know that this function is

0

1





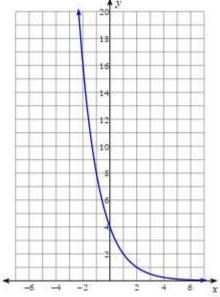
So, the explicit equation is f(x) = -3x + 2

So, the explicit equation is f(x) = x + 4

ratio is +1 and the f(0) = 4.

Let's write a table of points

5. Write the equation of the graph:



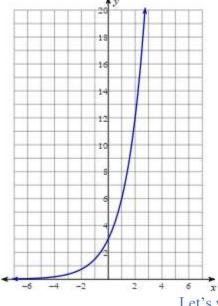
In order to write the equation of a graph, we should write a table of points where the line crosses the grid. We know that this function is exponential, so we are looking for the constant ratio and the f(0).



After we write out the points, it is easy to see that the constant ratio is $\frac{1}{2}$ and the f(0) = 4.

So, the explicit equation is
$$f(x) = \left(\frac{1}{2}\right)^x \cdot 4$$

6. Write the equation of the graph:



In order to write the equation of a graph, we should write a table of points where the line crosses the grid. We know that this function is exponential, so we are looking for the constant ratio and the f(0).



After we write out the points, it is easy to see that the constant ratio is 2 and the f(0) = 3.

So, the explicit equation is $f(x) = 2^x \cdot 3$

