

Introduction to Exponential Functions

November 30, 2009

1. Let $f(x) = 2^x$. Fill in the following table:

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

2. Let $g(x) = 4^x$. Fill in the following table:

x	- 3	-2	-1	0	1	2	3
$g(x)$							

3. Sketch the graph of $y = f(x)$ and $y = g(x)$ on a common set of axes (please draw your own axes).

4. Let $h(x) = \left(\frac{1}{2}\right)^x$. Fill in the following table:

x	- 3	-2	-1	0	1	2	3
$h(x)$							

5. Sketch a graph of $y = h(x)$. Please draw your own axes.