Name:

Directions: Selected values for several functions are shown below. For each, determine if the given function could be logarithmic, exponential, or neither.

1.	
x	f(x)
0	1
3	4
6	9
9	16

2.	
x	g(x)
0	1
1	4
2	16
3	64

3.	
x	h(x)
1	1
2	3
4	5
8	7

4.	
x	k(x)
40	-1
20	-2
10	-3
5	-4

Directions: Portions of the graphs of the exponential functions $f(x) = a^x$ and $g(x) = b^x$ are shown below. Sketch the graphs of f^{-1} and g^{-1} on the axes as f and g.



Directions: Use the graphs above to approximate the following values.

7.
$$\log_a 3$$
 8. $\log_a \frac{1}{2}$ 9. $\log_b 4$ 10. $\log_b \frac{3}{2}$