Functions:Shift,Mirror,Domains. Section_____ Name _____ Date _____

Total points this practice quiz: 100. Points per problem: 5. Points this page (possible= 100): _____			
	Problem	**work**	**Answer**
Tell whether each relation below represents y as a function of x on the domain given. If it is a function, write "Function". If not, write "Not a function"			
1	$x^2+(y-293)^2 = 3^2$ domain = (0,6)		
2	$x= y^4$ domain = $(0,\infty)$		
3	{(2,7),(3,4)(3,8)}		
4.	$y = \sqrt{(x-5)}$ on the domain $[5,\infty)$		
5	$y = 1/(x-9)$ on the domain $[9,\infty)$		
6	$f(x) = 1/(x+4) + 1/(x-6)$ on the domain (-4,6)		
7	$f(x) = \lvert x\rvert + \frac{}{=}$ on the domain [-1,1]		
For the following problems #8-14, $g(x) = 2x^2+3x+4$			
8	Find g(3)		
9	Find g(-3)		
For each question below, find the equation for:			
10	k(x) is the graph of g(x) first shifted to the left 2 units and then shifted down 3 units.		
11	p(x) = g(x) mirrored about the y axis		
12	q(x) = g(x) mirrored about the x axis		
13	r(x) has the graph of g(x) first mirrored about the y axis and then mirrored about the x axis		
Calculate each expression below. You may leave the answer in exponential form.			
14	$((2)^2)^5$		
15	$3^{123}3^{345}$		
16	$12^{87}/12^{85}$		
17	0^{888888}		
18	88888^0		
19	0^0		
20	$8^{-(2/3)}$		