Function shifting, mirroring, stretching; Even and Odd functions. Name _____

For these problems, $f(x) = x^2+1$, $g(x) = x^2+x+3$, $h(x) = 1/(x^2+1)$, $k(x)=x^3-x$.			
	Problem	Work	Answer
1	Find the equation of f(x) mirrored about the x axis.		
2	Find the equation of f(x) mirrored about the y axis.		
3	Which of the functions f,g,h,k are EVEN functions?		
4	Which of the functions f,g,h,k are ODD functions?		
5	Is the function $f(x)\cdot k(x)$ even, odd, both, or neither?		
6	Find the equation of g(x) mirrored about the x axis.		
7	Find the equation of g(x) mirrored about the y axis.		
8	Consider the function q(x) = h(x) restricted to the domain $[0, \infty)$. Find the equation of $q^{-1}(x)$.		
9	What is the domain of q(x) in #8 above?		
10	What is the range of q(x) in #8 above?		
11	Find the equation of g(x) shifted to the right +2 and up -3.		
12	Find the equation of k(x) shifted to the left 3 and up 2, and then stretched by a factor of 2.		
13	By completing the square, find the equation of g(x) in standard form, that is, $y - k = a(x-h)^2$.		
14	Find the equation of the function composition $s(x) = g^{o}k(x)$		
15	Find the equation of s(x) mirrored about the x axis.		