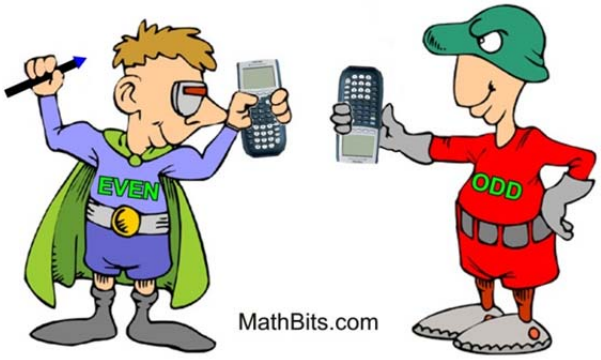
Odd and Even Functions

Name_____



Determine if the functions on the left side are Even functions, Odd functions, or Neither. Place a check in the appropriate column. At the bottom of the sheet, use the total number of checks in each column to see if the stated equation is true. If not true, you may need to adjust your column checks. Be sure to show your work on another paper. Good luck!

	Function	Even	Odd	Neither
1	$f(x) = 5x^2 - 4x + 3$			
2	$g(x) = 3x^3 - 4x$			
3	$h(x) = -2x^4 + 3x^2$			
4	$f(x) = -2x^5 + 3x^3 - 5x^2$			
5	$n(x) = \sqrt{x^2 + 9}$			
6	$s(x) = 3x^{\frac{1}{3}}$			
7	$g(x) = \sqrt{1 - x^2}$			
8	$h(x) = x^6 + 2x^4 - 3x^2 - 4$			
9	$m(x) = (x - 2)^2$			
10	$p(x) = 2x\sqrt{x^2 + 4}$			

Expression Check: 4(# of Evens) + 3(# of Odds) – (# of Neither) = 22

4( ) + 3( ) – ( ) = _____