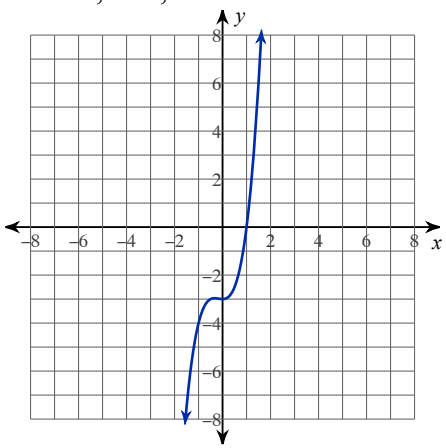
Advanced Algebra Name_____

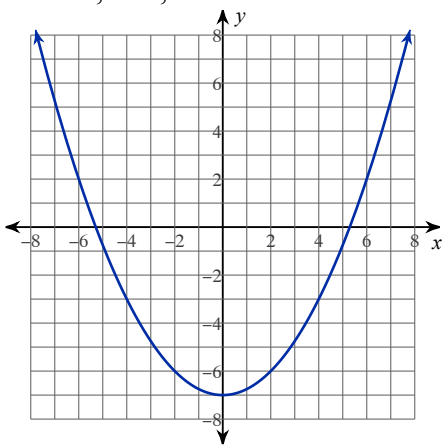
# Even & Odd Polynomials Assignment

Date_____ Period____

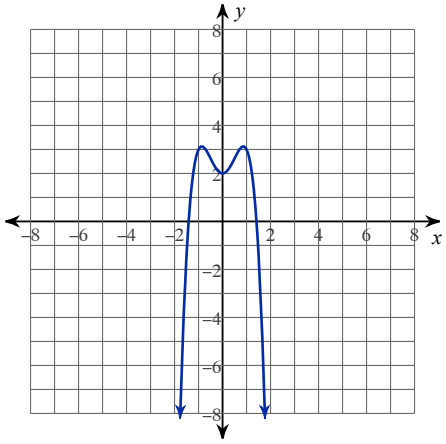
1) Determine whether the following function is even, odd, or neither.



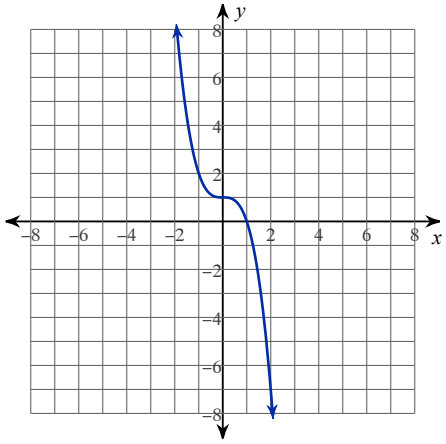

2) Determine whether the following function is even, odd, or neither.



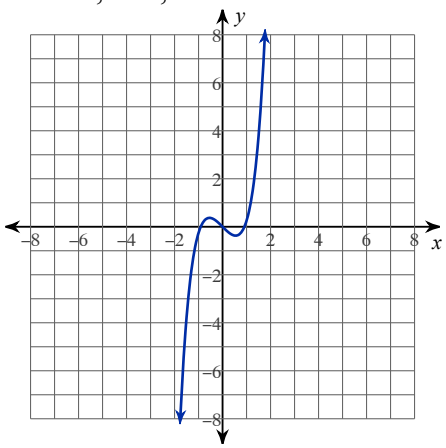

3) Determine whether the following function is even, odd, or neither.



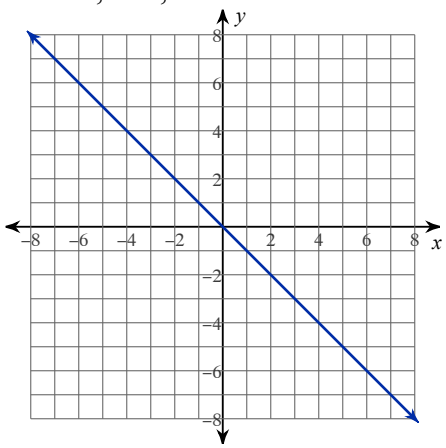

4) Determine whether the following function is even, odd, or neither.



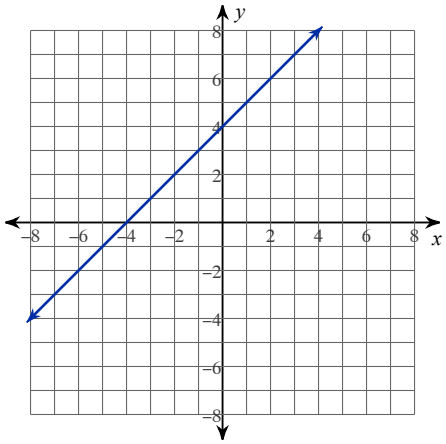

5) Determine whether the following function is even, odd, or neither.



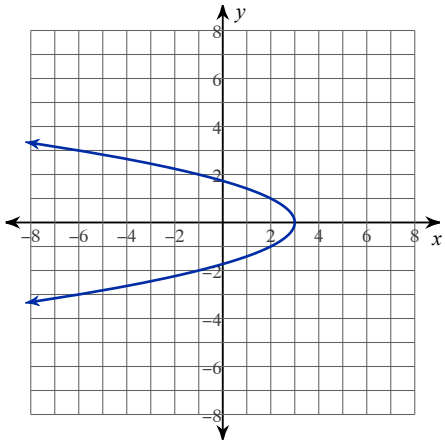

6) Determine whether the following function is even, odd, or neither.



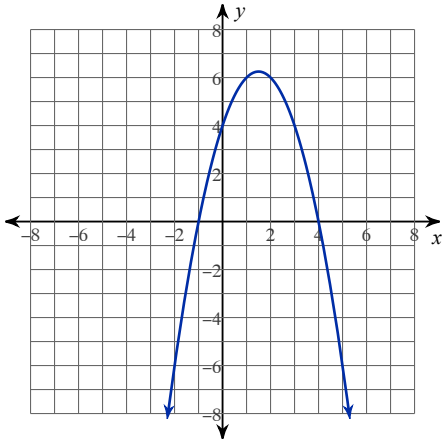
7) Determine whether the following function is even, odd, or neither.



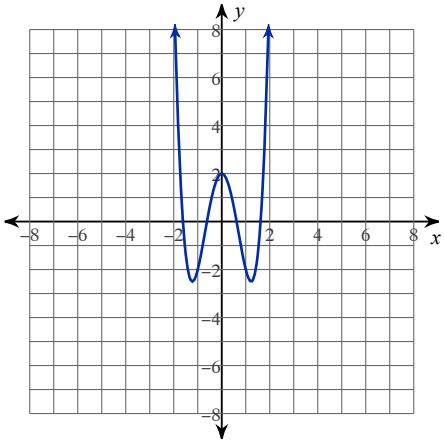
8) Determine whether the following function is even, odd, or neither.



9) Determine whether the following function is even, odd, or neither.



10) Determine whether the following function is even, odd, or neither.



11) Determine whether the following function is even, odd, or neither.

$y = 6x^6 - 8x^4 + 11x^2 - 1$

12) Determine whether the following function is even, odd, or neither.

$y = x^4 + 3x^2 - 3$

13) Determine whether the following function is even, odd, or neither.

$y = \frac{1}{2}x^5 - x^3 + 6x$

14) Determine whether the following function is even, odd, or neither.

$y = x^2$

15) Determine whether the following function is even, odd, or neither.

$y = 7x^3 + x - 1$

16) Determine whether the following function is even, odd, or neither.

$y = -5x$

17) Determine whether the following function is even, odd, or neither.

$y = x^{18} + 2x^{12} - 11x + 1$

18) Write your own polynomial function that is ODD.

19) Write your own polynomial function that is EVEN.

20) Write your own polynomial function that is NEITHER even nor odd.