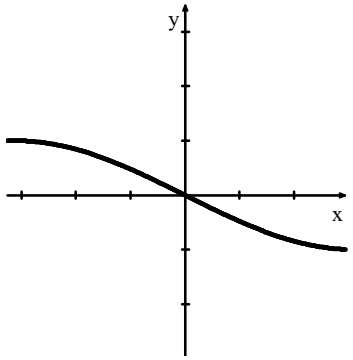
1.5B Even and Odd Polynomials

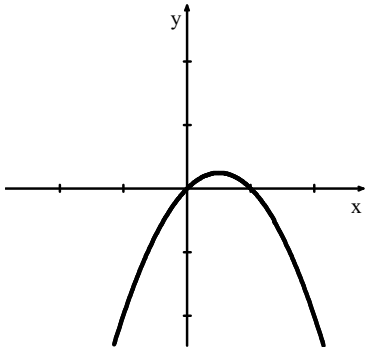
AP Precalculus Name: _____ **CA #1**

State whether the following graphs represent functions that are even, odd, or neither.

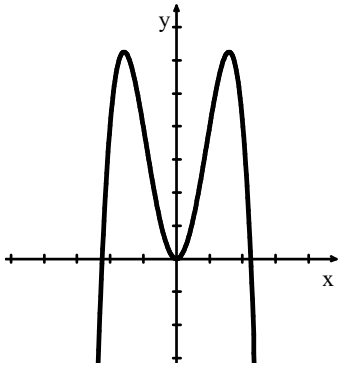
1.



2.



3.



State if the following functions are even, odd, or neither.

4. $f(x) = x^3 + 3x$

5. $f(x) = 3x^6 - 5x^4 - 2x^2$

6. $f(x) = 2x^7 - x^5 + x$

7. $y = x^2 + 3x - 5$

8. $f(x) = \frac{1}{2}x^2 + 5$

Answers to 1.5B CA #1

1. odd	2. neither	3. even	4. odd, $f(-x) = -f(x)$
5. even, $f(-x) = f(x)$	6. odd, $f(-x) = -f(x)$	7. neither	8. even, $f(-x) = f(x)$