

NAME: _____

Corrective Assignment

DATE: _____

Determine algebraically whether each function is even, odd, or neither. SHOW WORK!

1. $y = \frac{1}{2}x^2 + 5$

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

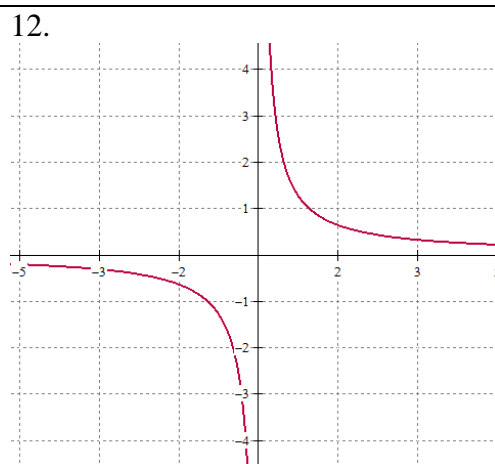
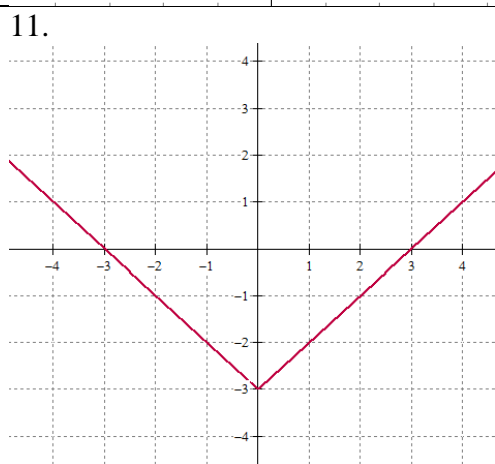
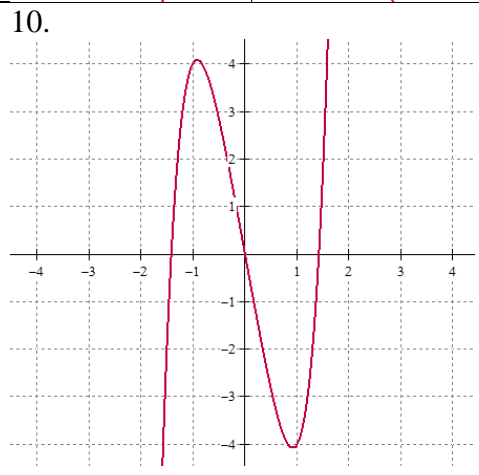
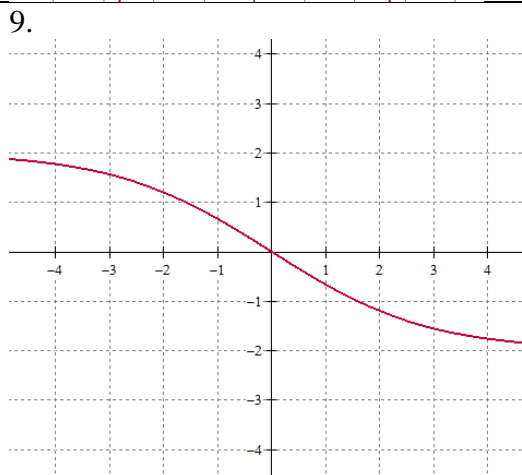
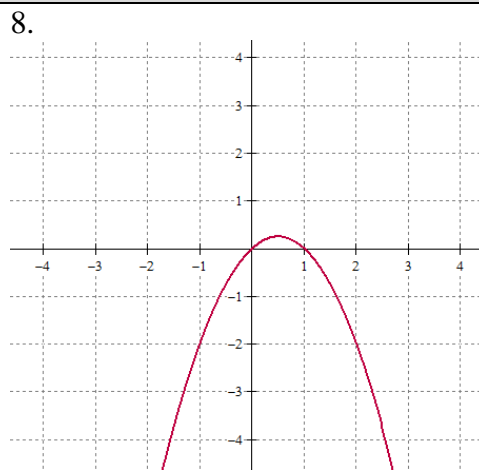
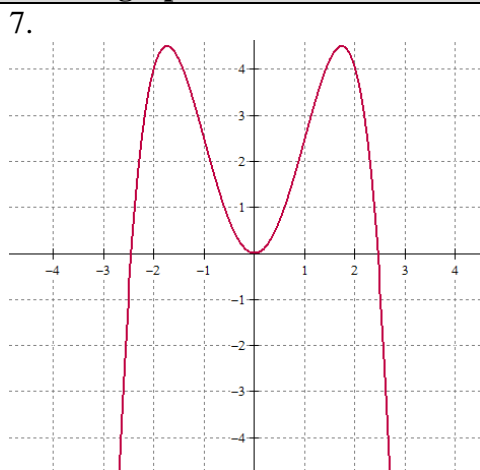
3. $y = x^3 + 3x$

4. $f(x) = \frac{x^2-4}{x^4+2}$

5. $f(x) = 1 - 2x^5$

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

Use the graph to determine if the function is even, odd, or neither.



ANSWERS TO CORRECTIVE ASSIGNMENT 4.2

1. even, $f(x) = f(-x)$	2. Neither, $f(x) \neq f(-x)$ and $f(-x) \neq -f(x)$	3. Odd, $f(-x) = -f(x)$
4. even, $f(x) = f(-x)$	5. Neither, $f(x) \neq f(-x)$ and $f(-x) \neq -f(x)$	6. Odd, $f(-x) = -f(x)$
7. even, symmetric about y-axis	8. Neither, no symmetry	9. Odd, point symmetry
10. Odd, point symmetry	11. even, symmetric about y-axis	12. Odd, point symmetry