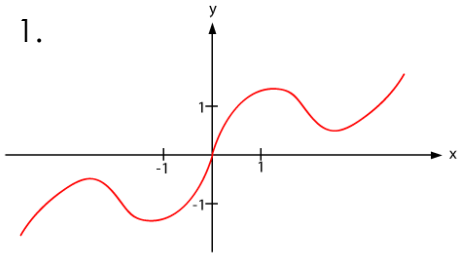
Name:_____

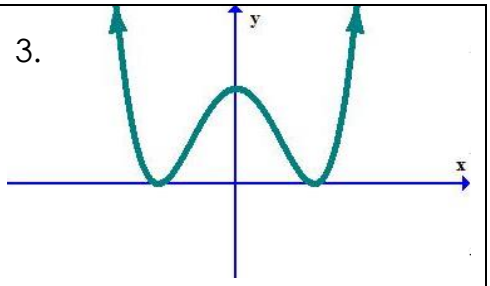
Identify each of the following as: even, odd, or neither.

1.



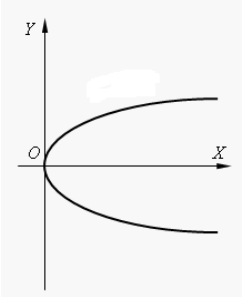
2. $f(x = x^2 - 1$

3.



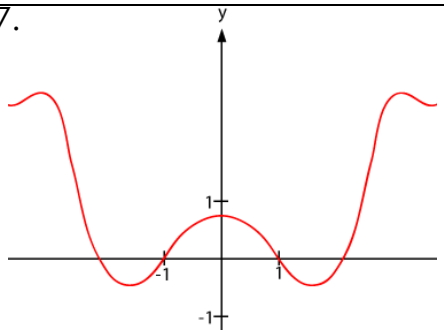
4. $f(x) = -5x^6$

5.



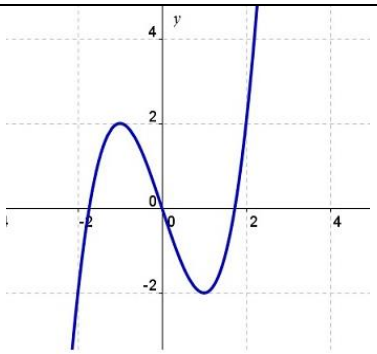
6. $f(x) = -2x^3 + 4x^2$

7.



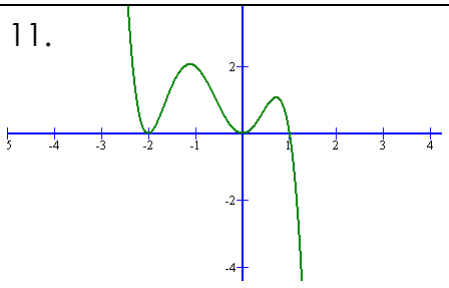
8. $f(x) = 9x^3 + 4$

9.



10. $f(x) - x^4 + 8$

11.



12. $f(x) = x^3 - x$

Use the exponential compounding formula to determine the following $A = P\left(1 + \frac{r}{n}\right)^{nt}$

13. On Olga's 16th birthday her uncle invested $2,000 in an account with a 4.75% interest rate compounded monthly. How much will she have when she turns 18?

14. Samantha deposits $4,000 in an account that pays 5% annual interest. She plans on removing it after 10 years. How much will she have in ten years under each of the following compounding periods?

a. annually b. monthly c. weekly

15. Which one gives her the most money?

16. How much more does she earn with the weekly account over the annual account?

17. Mike and Julie receive $20,000 in gifts from friends and relatives for their wedding. They deposit the money into an account that pays 4.75% interest compounded daily

a. Will their money double in fourteen years? (explain)

b. Will their money double in fifteen years? (explain)