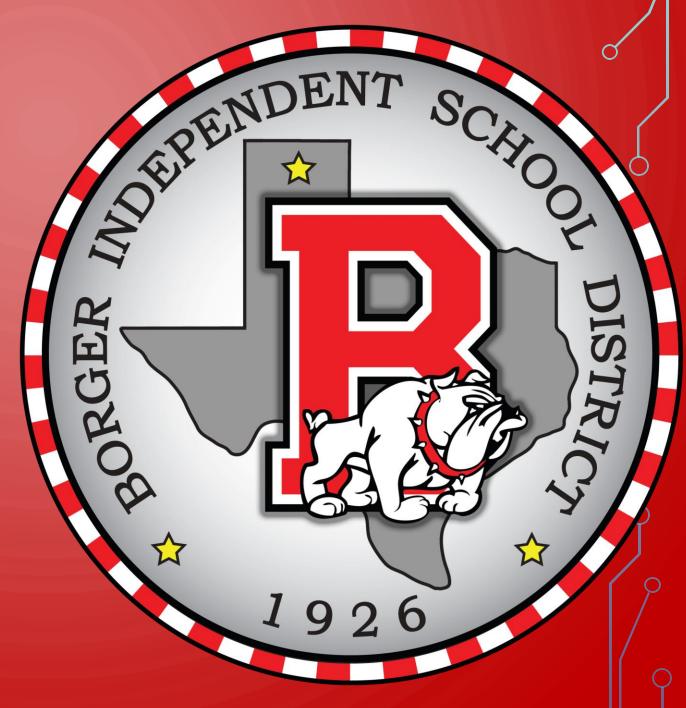
BOARD NOTES

5 SEPTEMBER 2019



 $f(x) = \frac{1}{x}$, $f(x) = \sqrt[3]{x}$, $f(x) = x^3$, f(x) = |x|, $f(x) = b^x$, $f(x) = \log_b x$ where b is 2, 10, and e, and, when applicable, analyze the key attributes such as domain, range, intercepts, symmetries, asymptotic behavior, and maximum and minimum given an interval; 2A.2 (D) use the composition of two functions, including the necessary restrictions on the domain, to determine if the functions are inverses of each other; 2A.7 (I) write the domain and range of a function in interval notation, inequalities, and set notation.

2A.2 (A) graph the functions $f(x) = x^2$, $f(x) = \sqrt{x} = \sqrt[2]{x}$,

We will be able to determine the maximum and minimum of a given function if it exists.

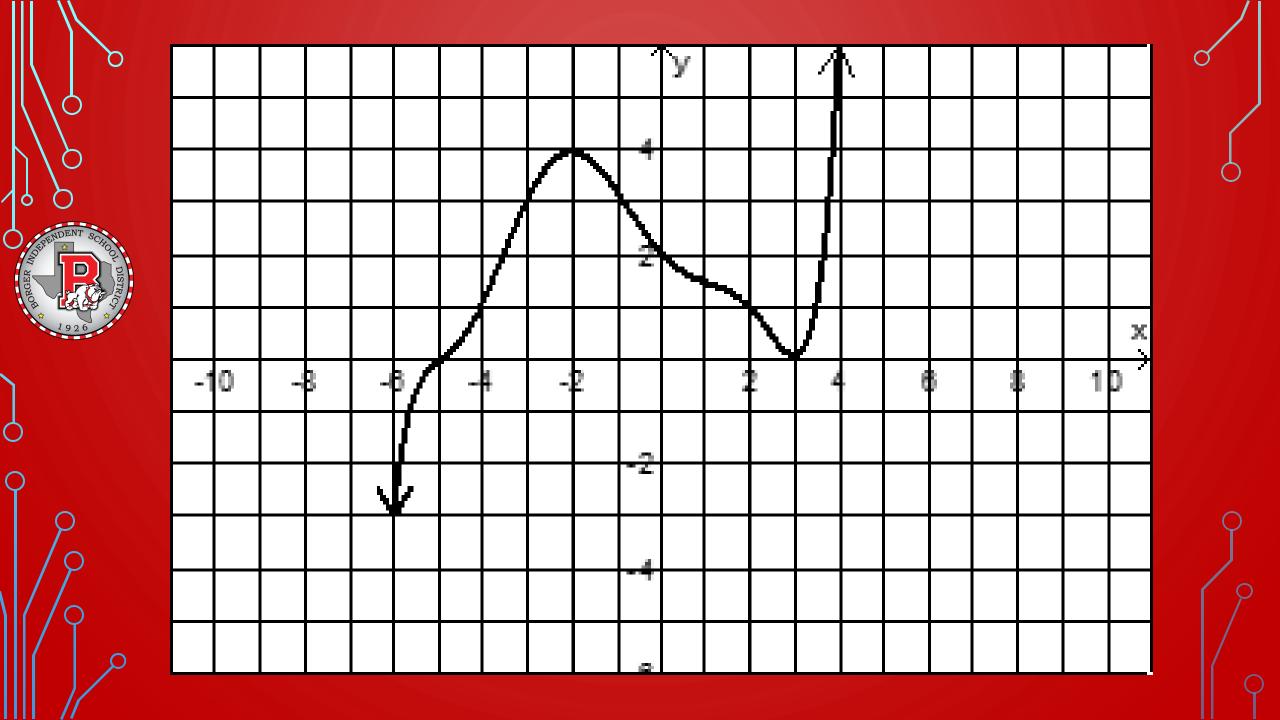


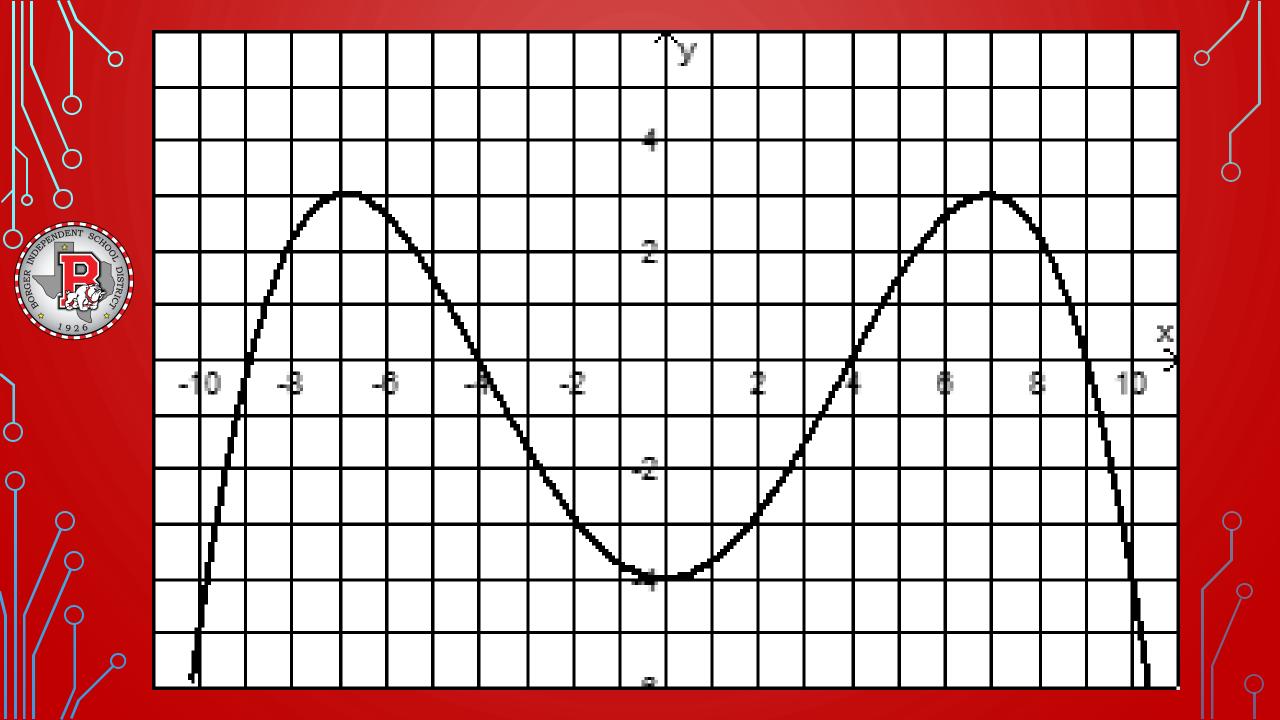
WHAT WE NEED:

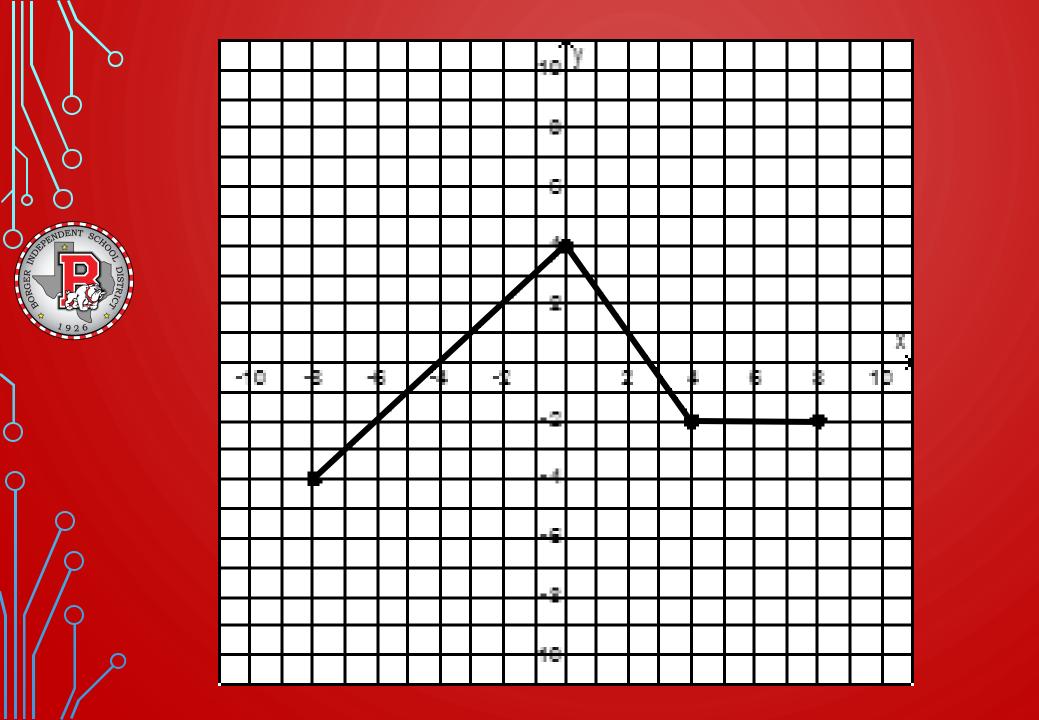
- TI 84
- Definition of:
 - Maximum
 - Minimum

I WILL BE ABLE TO COMPLETE MY HOMEWORK GIVING THE

- Domain
- Range
- Intercepts (if any)
- Intervals of: Increasing / Decreasing / Constant
- Reflections
- Even / Odd / Neither
- Transformations













$$(3, \infty)$$

DEC $(-2,3)$



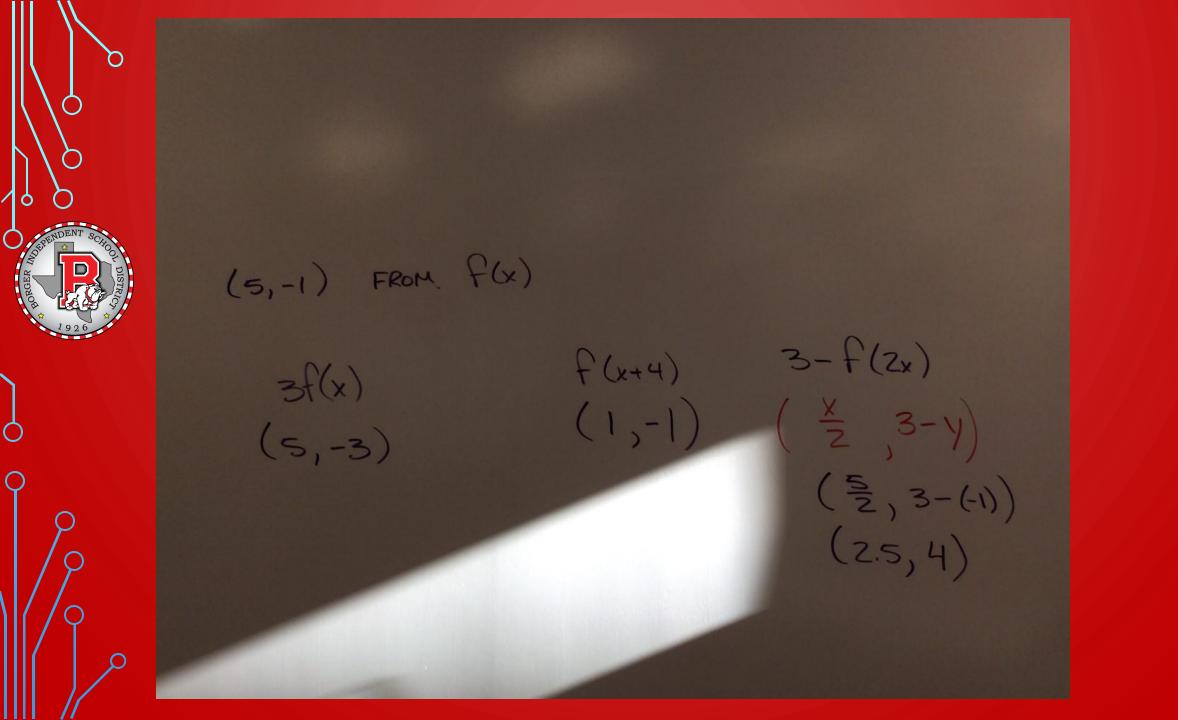


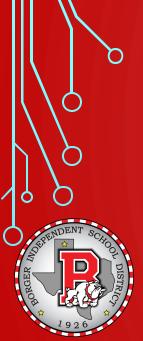


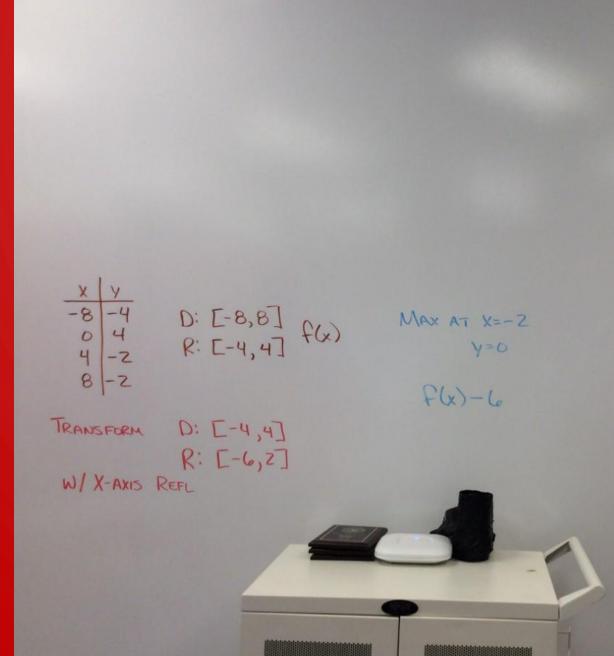




Max occurs
$$x = -2$$
 $V = 4$
 $V = 6$
 $V = 6$
 $V = 6$
 $V = 7$
 $V = 7$







DOMAIN DEC BY Z

 $\Rightarrow f(sx)$

RANGE GOES FROM [-4,4]
TO [-6,2]

 \Rightarrow f(2x)-2 RAX-f(2x)-2

