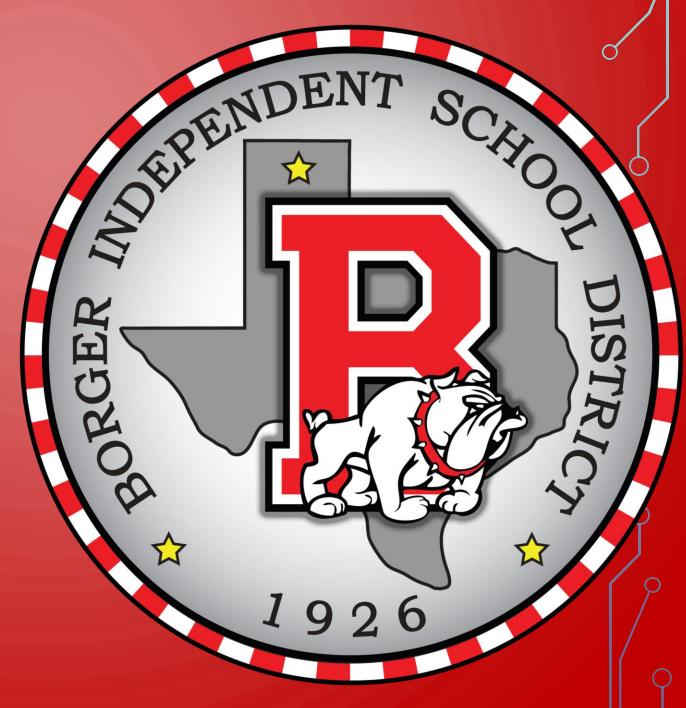
BOARD NOTES

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 transform parent functions.



WHAT WE NEED:

TI - 84

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

Linear Parent Function f(x) = xDomain: \mathbb{R} or $(-\infty, \infty)$ Range: $\mathbb R$

Absolute Value Parent Function f(x) = |x|Domain: \mathbb{R} or $(-\infty, \infty)$ Range: $[0, \infty)$

Reciprocal or Rational Parent Function $f(x) = \frac{1}{x}$
Domain: $(-\infty, 0) \cup (0, \infty)$ Range: $(-\infty,0) \cup (0,\infty)$ Vertical Asymptote: x=0Horizontal Asymptote: y=0



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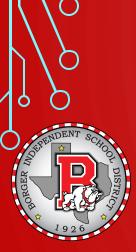
f(x+a) LEFT f(x-a) RIGHT f(x)+a Up f(x)-a DOWN f(ax) HC a>1 af(x) VC











$$f(x) = |x|$$

- DZ

- 4) UZ 5) VSZ 6) VCZ

$$f(x) = -3|x+4|-1$$

