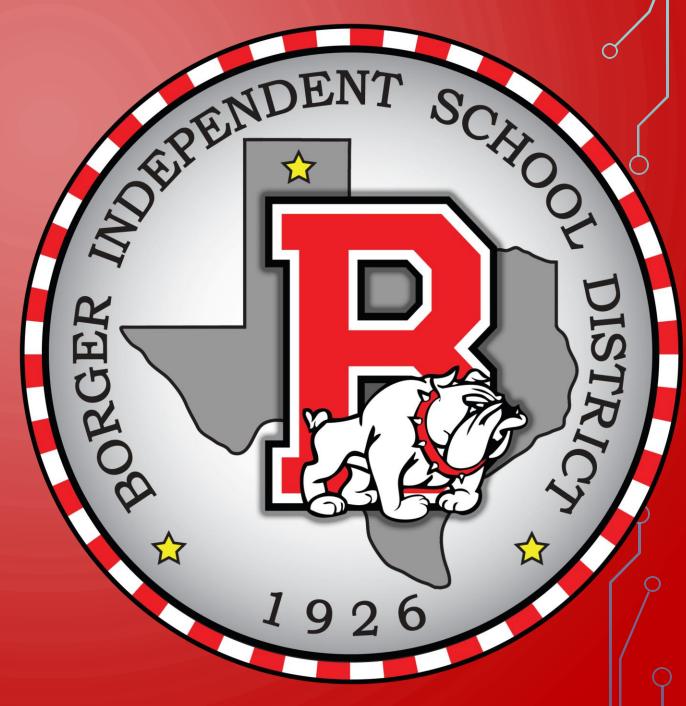
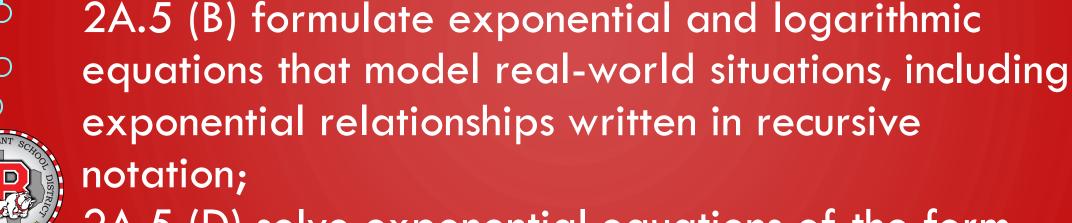
BOARD NOTES

18 FEBRUARY 2020





2A.5 (D) solve exponential equations of the form $y = ab^x$ where a is a nonzero real number and b is greater than zero and not equal to one and single logarithmic equations having real solutions; 2A.5 (E) determine the reasonableness of a solution to a logarithmic equation.

We will be able to solve logarithms by using the definition.



WHAT WE NEED:

- TI-84
- Laws of Exponents
- Definition of Exponential
- Definition of Logarithmic

I WILL BE ABLE TO COMPLETE MY HOMEWORK GIVEN THE

Equation







DEFN OF EXP $Y = b^{x}$ $b > 0 \stackrel{?}{,} b \neq 1$ D: R $R: (0, \infty)$ DEFN OF LOG $Y = \log_{x} x = b^{y} = x$ $b > 0 \stackrel{?}{,} b \neq 1$ $D: (0, \infty) R: R$

ADSWER
$$\log_{4} 16 = 2$$

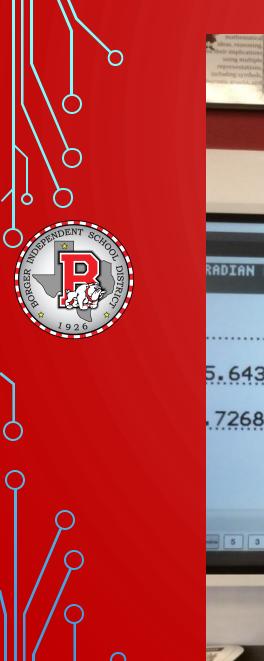
$$\log_{4} 16 = 2$$

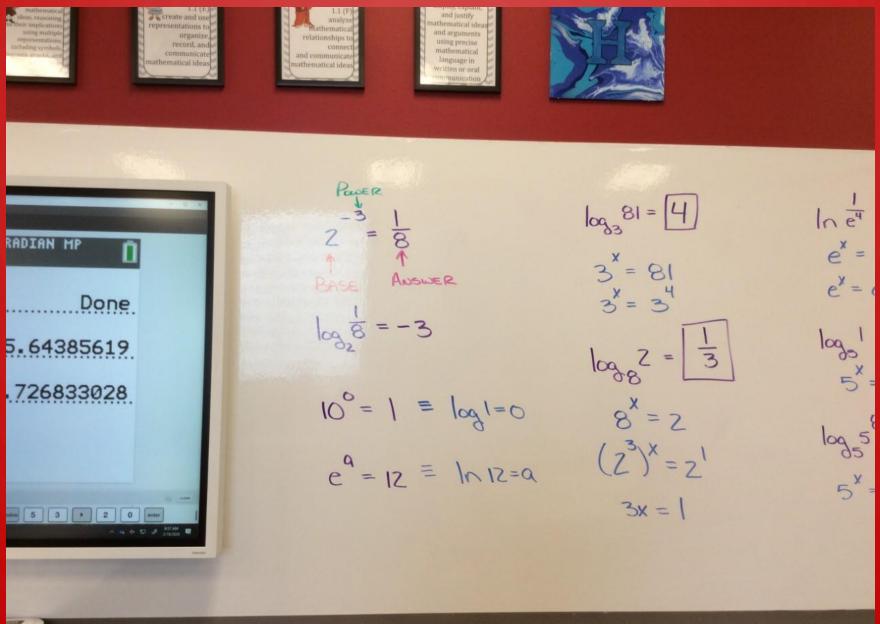
$$\log_{5} 7 = 5$$

$$\log_{5} 7 = 7$$

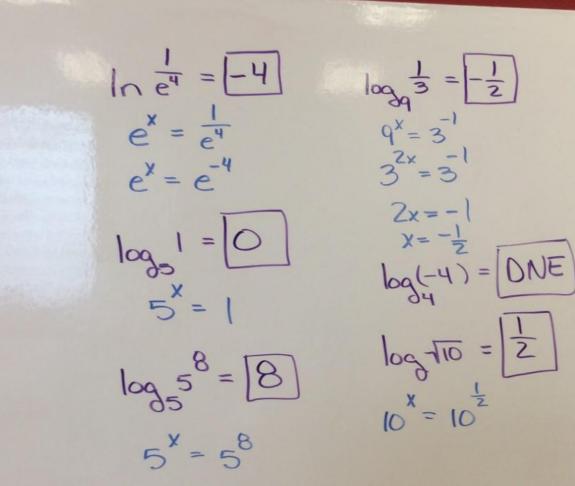
$$\ln C = 3 = \log_{6} 7 = 3$$

$$e^{3} = 0$$











$$\log_2 32 = \log(2^5) = 5$$

log_32 < log_50 < log_64