

13 FEBRUARY 2020

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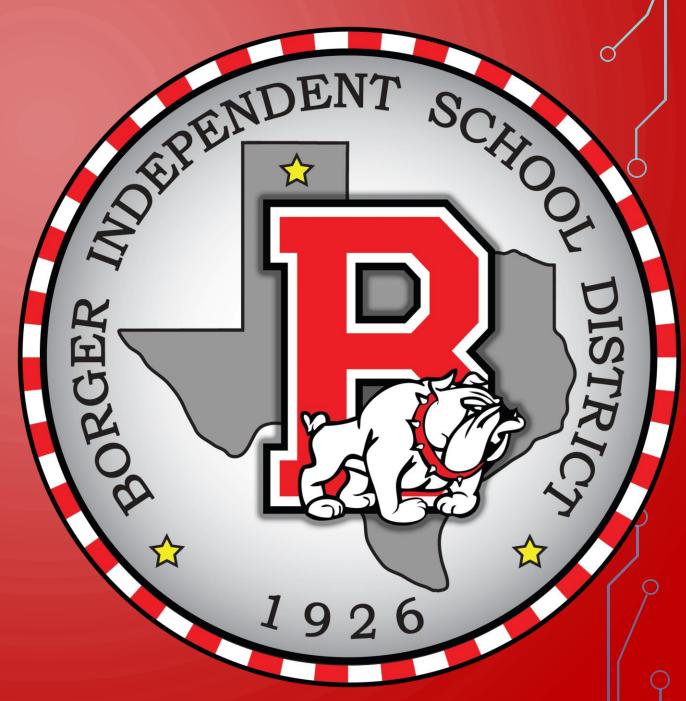
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B

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Q



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 model exponential equations (exponential growth and decay: compound interest and depreciation).



WHAT WE NEED:

- TI-84
- Laws of Exponents
- Definition of Exponential
- Compound Interest Formula

I WILL BE ABLE TO COMPLETE MY HOMEWORK GIVEN THE

• Equation





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 $A = P(1 + \frac{c}{n})^{n \neq 1}$ 

6.5% → .065





A=? \$664.14 P= 500 (=.095 N= 12 (MONTHLY) t= 3

and arguments using precise mathematical language in

A=? \$ 231.50 P= \$ 150 r = .075 n = 1t= 1994-1988=6

A = \$ 5000 P=? \$ 1915.44 r= .065 N= 2 (SEMI-ANNUALLY) t= 15

 $5000 = P(1+\frac{.065}{2})^{2.15}$ 



\$6400 7 A P = 12,500.2 = 3 t  $A = P(1 - \frac{c}{n})^{n \epsilon}$ 





