BOARD NOTES

10 FEBRUARY 2020

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 \mathbf{a}

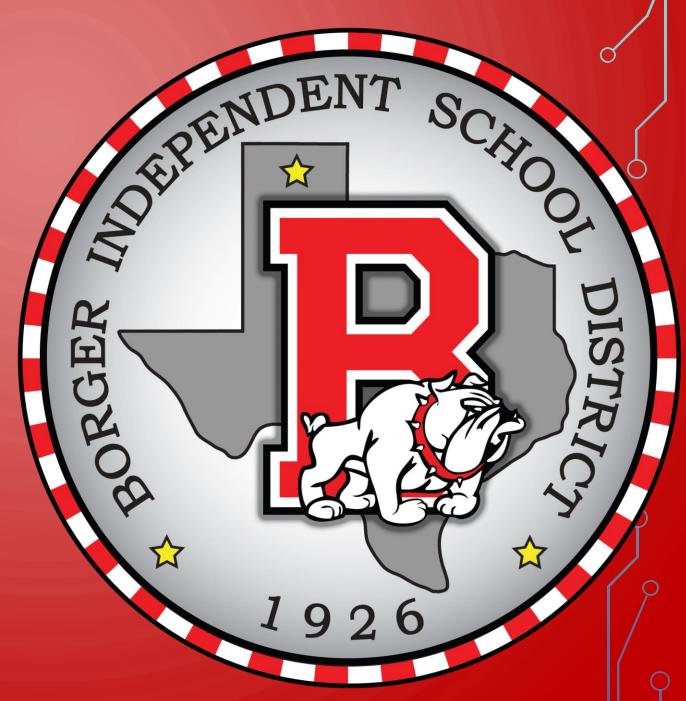
Q

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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 solve exponential equations.



WHAT WE NEED:

• TI-84



• Laws of Exponents

I WILL BE ABLE TO COMPLETE MY HOMEWORK GIVEN THE

• Equation





 $(-4)(-4)^3 = -4^{1+3} = (-4)^4$ $((-3)^2)^3 = (-3)^{2\cdot3} = (-3)^6$ $(3^{2}x^{2}y)^{2} = 3^{2 \cdot 2} x^{2 \cdot 2} y^{1 \cdot 2} = 3^{4} x^{4} y^{2}$ $m^{7} \cdot \frac{1}{m^{4}} = m^{7 - 4} = m^{3}$

American present for estimate and market and





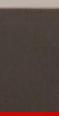
 $\frac{8^9}{8^5 \cdot 8^3} = 8^{9-(5+3)} = 8$

longuage is ritten or or

4^y. 4⁶ = 4^{y+6}

 $3^{X}_{3}^{Z} = 3^{X}_{3} \rightarrow 3^{X+Z}_{3} = 3^{X+Z}_{3}$ X+Z = 8X = 6

 $|F = a^m = a^n THEN m = n$ -4 3 -4+3 -1 $=\frac{1}{5}$ 5 \cdot 5 = 5 = 5 = 5 $5^{-4} \cdot 5^3 = \frac{5^3}{5^4} = 5^{-4} = 5^{-1} = \frac{1}{5}$ $(2^{-3})^2 = 2^{-3 \cdot 2} = 2^{-6} = \frac{1}{2^6}$ $\frac{8^{3} \cdot 8^{5}}{8^{9}} = 8^{(3+5)-9} = 8^{-1} = \frac{1}{8}$ $\left(\frac{5}{6}\right)^{-3} = \frac{5^{-3}}{5^{-3}} = \frac{1}{5^{-3}} = \frac{1}{5^{-3}} \cdot \frac{1}{5^{-3}} = \frac{1}{5^{-3$





days until 1 Valentiris Day D 1

Bx y 5.3. x4. x3. y3. y5 8.6.x5.y4

 $= \frac{15}{48} x^{(4+3)-5} (3+5)-4 y^{(3+5)-4}$ $= \frac{5x^2y^4}{16}$

 $\frac{2x^{k}y^{t}}{4x^{2}y^{2}} \cdot \frac{4x^{2}y^{2}}{4x^{2}y^{2}} = \frac{2 \cdot 4 \cdot x^{6} \cdot x^{2} \cdot y^{4} \cdot y^{3}}{6 \cdot 12 \cdot x^{3} \cdot y^{5}}$ $= \frac{8}{72} x^{(6+2)-3} y^{(4+3)-5}$ X⁵y² $=\frac{x^{5}x^{2}}{9}$

