

28 JANUARY 2020

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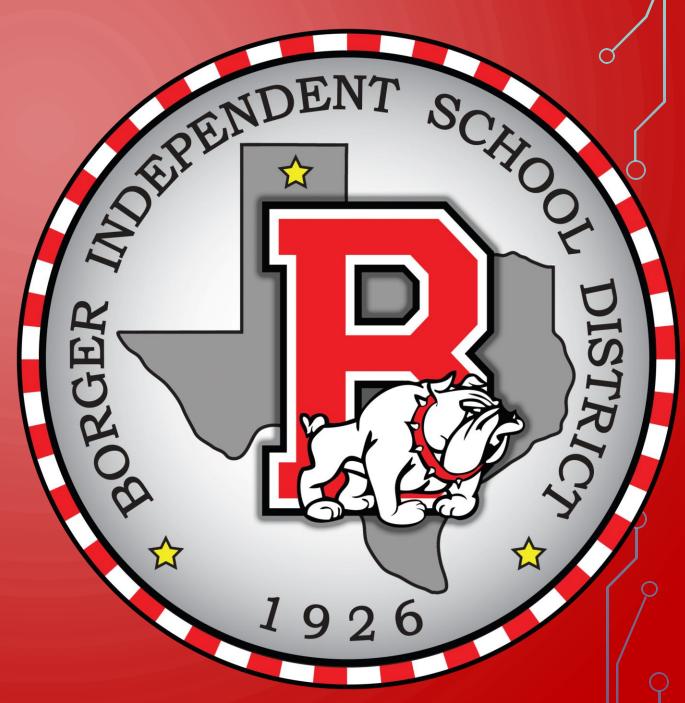
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2A.7 (G) rewrite radical expressions that contain variables to equivalent forms; 2A.7 (H) solve equations involving rational exponents;

We will be able to rewrite radical expressions to equivalent forms.



WHAT WE NEED:

• TI-84

I WILL BE ABLE TO COMPLETE MY HOMEWORK GIVEN THE

• Equation



Laws of Exponents Extended to Rational Exponents

 $a^m \cdot a^n = a^{m+n}$

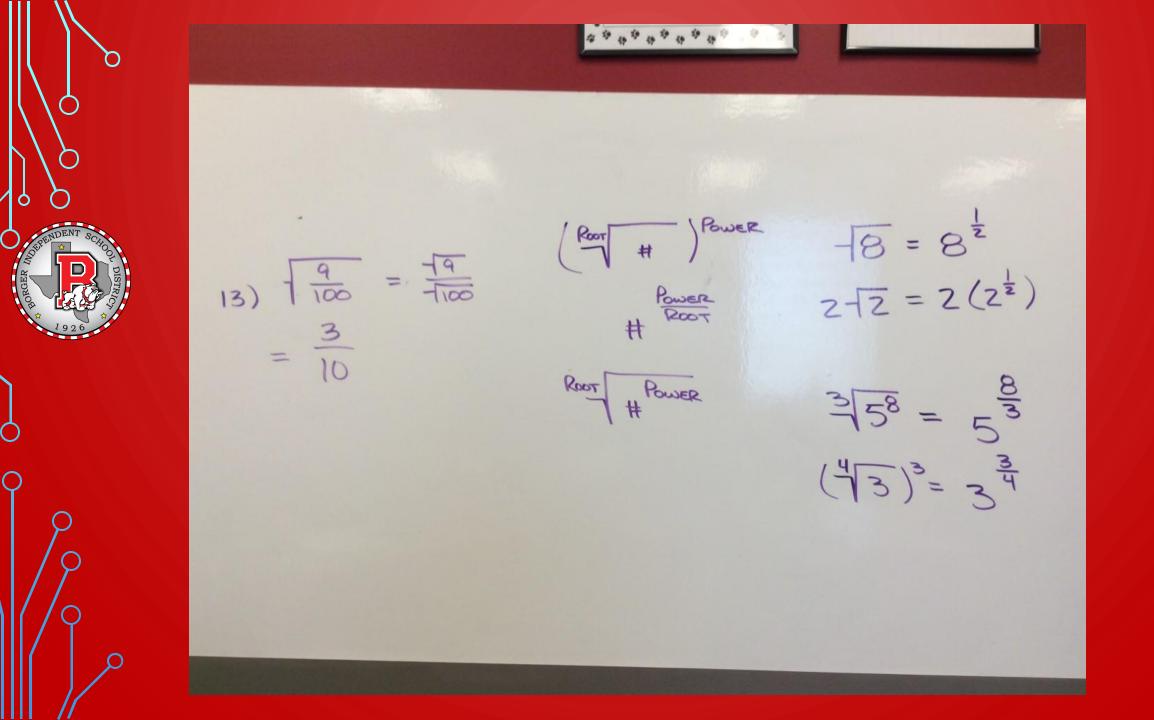
 $\frac{p}{ar} \cdot \frac{q}{as} = \frac{p}{ar} + \frac{q}{s}$

 $\frac{a^m}{a^n} = a^{m-n}$

 $\frac{\frac{p}{r}}{\frac{q}{as}} = \frac{p}{ar} - \frac{q}{s}$

 $(a^m)^n = a^{m \cdot n}$

 $\left(\frac{p}{ar}\right)^{\frac{q}{s}} = \frac{p}{ar} \cdot \frac{q}{s}$





 $5^{\frac{3}{4}} = 45^{3}$ 4 = 54 $4^{\frac{3}{2}} = (-14)^3 = 2^3 = 8$ $16^{\frac{53}{3}} = (316)^{5}$ = (32.2)5 $q^{-\frac{1}{2}} = \frac{1}{\sqrt{q}} = \frac{1}{3}$ = (272)5 $8^{\frac{2}{3}} = (\frac{3}{8})^{2} = 2^{2} = 4$ $(5^{\frac{4}{3}} \cdot 3^{\frac{4}{9}})^{\frac{4}{9}} = 5^{\frac{4}{9}} \cdot 3^{\frac{4}{9}}$ = 25(3(2)5 OR 2/82 = 3/64 = 3/4-4-4 = 4 = 32(32)5

 $a_{-m} = \frac{a_{m}}{a_{-m}}$ $-\frac{P}{\Gamma} = \frac{1}{\frac{P}{\Gamma}}$

 $(5^{4} \cdot 3)^{\frac{1}{4}} = 15$ = 5' - 3' = 15 :

