

October 27, 2017  
 Quiz #6 averages  
 9:00 48  
 10:00 68

Oct 27-8:06 AM

Laws of Exponents  
 ① Product  
 ② Power  
 ③ Quotient  
 3.a Negative Exponent Rule  
 ①  $a^{-n} = \frac{1}{a^n}$   
 ②  $\frac{1}{a^{-n}} = a^n$

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3.15  
 $\frac{x^2}{x^2} = \frac{\boxed{x} \cdot \boxed{x}}{\boxed{x} \cdot \boxed{x}} = \boxed{1}$  meaning  
 \*rule  
 $\frac{x^2}{x^2} = x^{2-2} = x^0$  rule  
 So,  $x^0 = 1$

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$2^1 m^2 \cdot 2^3 m^3$   
 $2^{1+3} m^{2+3} = 2^4 m^5$   
 $4 m^5$

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#12)  $(2x^2)^{-4}$   
 $2^{-4} \cdot (x^2)^{-4}$   
 $\frac{1}{2^4} \cdot \frac{1}{(x^2)^4}$   
 $\frac{1}{16} \cdot \frac{1}{x^8} = \boxed{\frac{1}{16x^8}}$

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