

## MODULE 4 NOTES CARDS

*Fold along this center line*

Multiplication Rule

$$\underline{x^m x^n}$$

Add  
Exponents

$$x^{m+n}$$

Division Rule

$$\underline{x^m / x^n}$$

Subtract Exponents  
(subtract from the  
bigger number)

$$x^{m-n}$$

Power Rule

$$\underline{(x^m)^n}$$

Multiply Exponents

$$\underline{x^{m \cdot n}}$$

Zero Power  
(exponent)

$$\underline{x^0}$$

Anything to the  
zero power is 1

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Negative  
Exponents

$$\underline{x^{-m}}$$

Make negative exponents  
positive by flipping them

$$\underline{1 / x^m}$$

Polynomial  
Degree

Highest Exponent  
in the polynomial

Evaluate

Plug in and  
solve

Combining Like  
Terms

Same variable and  
same exponent

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F.O.I.L.

First  
Outer  
Inner  
Last

$(x+y)^2$

Write it out twice  
 $(x+y)(x+y)$

Conjugate Pairs

Different sign in the  
middle  
 $(x+y)(x-y)$

Division of  
Polynomials

Separate into  
individual fractions