

1. Multiply numbers with exponents – Add exponents

$$x^2 * x^5 = x^7$$

2. When we exponent an exponent we multiply exponents

$$(x^2)^5 = x^{10}$$

3. When we add numbers with exponents, exponents do not change!!!!!!!!!!

4. Divide numbers with exponents, we subtract exponents. We take the smaller from the larger and the smaller goes away –

kick the wall softly. $\frac{x^2}{x^5} = \frac{1}{x^3}$

5. An exponent outside a () applies to all things inside the ()

$$(5x^2y^4)^2 = 25x^4y^8$$