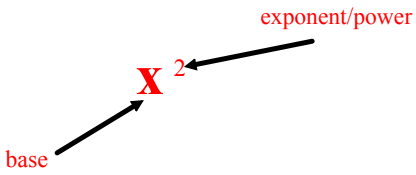
6

Review



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

$y \ y^3 = y^4$

ADD the EXPONENTS

$(x^3)^4 = x^{12}$ ← MULTPILY the EXPONENTS

$(3x^3y^5)^2 = 3^2(x^3)^2(y^5)^2$

$= 9x^6y^{10}$

8-2 Dividing Monomials

$$\frac{4^5}{4^3} = \frac{4\ 4\ 4\ 4\ 4}{4\ 4\ 4}$$

$$\frac{3^6}{3^2} =$$

$$\frac{x^{15}}{x^{7}} =$$

SUBTRACT the EXPONENTS

Example 1) $\frac{x^5y^8}{x^2y^3} =$

Example 2) $\frac{4x^7y^4}{2x^5y^3} =$

Example 3) $\frac{5x^9y^7}{3x^6y^5} =$

Example 4) $\frac{9x^2y^7}{3y^4} =$

Powers of Quotients

Division

$\left(\frac{2}{3}\right)^2 =$

$\left(\frac{x}{y}\right)^5 =$

$\left(\frac{2x^2y^3}{3}\right)^4 =$

$\left(\frac{3x^7}{5}\right)^2 =$

Using negative exponents:

$$x^{-n} = \frac{1}{x^n}$$