

$$(xy)^m = x^m y^m$$

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

$$x^m \cdot x^n = x^{m+n}$$
$$\frac{x^m}{x^n} = x^{m-n}$$

$$x^1 = x$$

$$x^0 = 1$$

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

$$(x^m)^n = x^{mn}$$

$$X^m X^n = X^{m+n}$$

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

$$(xy)^m = x^m y^m$$

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