

- Laws of exponents

(i)  $x^m \times x^n = x^{m+n}$

(ii)  $x^m \div x^n = x^{m-n}$

(iii)  $(x^m)^n = x^{m \times n}$

(iv)  $x^m \times y^m = (xy)^m$

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

(vi)  $x^{-m} = \frac{1}{x^m}$

(vii)  $x^{-m} \times x^m = 1$

(viii)  $x^0 = 1$