

Exponent Rules/Properties

$$x^m \cdot x^n = \underline{\hspace{2cm}}$$

$$\frac{x^m}{x^n} = \underline{\hspace{2cm}}$$

$$(x^m)^n = \underline{\hspace{2cm}}$$

$$x^0 = \underline{\hspace{2cm}}$$

$$x^1 = \underline{\hspace{2cm}}$$

$$\text{If } x^m = x^n, \text{ then } \underline{\hspace{2cm}}$$

$$x^r = \underline{\hspace{2cm}}$$

$$(xy)^m = \underline{\hspace{2cm}}$$

$$\left(\frac{x}{y}\right)^m = \underline{\hspace{2cm}}$$

$$x^{-m} = \underline{\hspace{2cm}}$$

$$\frac{1}{x^{-m}} = \underline{\hspace{2cm}}$$

$$(\sqrt[n]{x})^m = \underline{\hspace{2cm}}$$

$e = \underline{\hspace{2cm}}$ e is like π , it is a decimal that goes on forever, it is irrational

Scientific notation: $\underline{\hspace{2cm}}$, where $0 < a < 10$

If base is 10, then positive exponent moves decimal to the $\underline{\hspace{2cm}}$.

If base is 10, then negative exponent moves decimal to the $\underline{\hspace{2cm}}$.

$a^{\log_a m} = \underline{\hspace{2cm}}$ since they are inverses of each other.

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