



Rajarshi Gurukul

Sallaghari, Bhaktapur -17, Nepal

Full marks: 10

Name: _____

Grade: _____

Laws of indices

Drag the correct options.

1. Product law of indices: If a^m and a^n are any two terms with the same base a and the powers m and n respectively, then

$$a^m \times a^n = \boxed{\phantom{a^{m+n}}}$$

2. Quotient law of indices: If a^m and a^n are any two terms with the same base a and the powers m and n respectively, then

$$a^m \div a^n = \boxed{\phantom{a^{m-n}}} \text{ if } m > n$$

$$a^m \div a^n = \boxed{\phantom{a^{m-n}}} \text{ if } m < n$$

3. Power law of indices: If $(a^m)^n$ is any terms with base a and the power n on power m , then

$$(a^m)^n = \boxed{\phantom{a^{m \times n}}}$$

4. law of zero index: If a^0 is any term with base a and the power 0 , then

$$a^0 = \boxed{}$$

5. Root law of index: If $\sqrt[n]{a^m}$ is any term with root ' n ' base a and the power m , then

$$\sqrt[n]{a^m} = \boxed{\phantom{a^{m/n}}}$$

$$\frac{1}{a^{n-m}}$$

$$a^{m/n}$$

$$a^{m \times n}$$

$$a^{m-n}$$

$$a^{m+n}$$

$$1$$

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