



BeWise Academy

Notes

Indices Rules (Power Rules or Exponent Rule)

1.

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

2.

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

3.

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

4.

$$a^0 = 1$$

5.

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

6.

$$(a \times b)^m = a^m \times b^m$$

7.

$$\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m}$$

8.

$$\left(\frac{a}{b}\right)^{-m} = \left(\frac{b}{a}\right)^m$$

9.

$$\sqrt[n]{a^m} = a^{\frac{m}{n}}$$

10.

$$\sqrt{a} = a^{\frac{1}{2}}$$