

Règles	Exemples
$a^0 = 1$	$2^0 = 1$
$a^1 = a$	$17^1 = 17$
$\sqrt{a} = a^{\frac{1}{2}}$	$\sqrt{4} = 4^{\frac{1}{2}}$
$\sqrt[n]{a} = a^{\frac{1}{n}}$	$\sqrt[3]{27} = 27^{\frac{1}{3}}$
$a^{-m} = \frac{1}{a^m}$	$9^{-2} = \frac{1}{9^2}$
$\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m}$	$\left(\frac{5}{6}\right)^2 = \frac{5^2}{6^2}$
$a^m \times a^n = a^{m+n}$	$5^2 \times 5^4 = 5^{2+4}$
$\frac{a^m}{a^n} = a^{m-n}$	$\frac{4^5}{4^3} = 4^{5-3}$
$(a^m)^n = a^{m \times n}$	$(2^5)^3 = 2^{5 \times 3}$
$a^n \times b^n = (a \times b)^n$	$2^5 \times 3^5 = (2 \times 3)^5$
$a^{\frac{m}{n}} = \sqrt[n]{a^m}$	$81^{\frac{3}{2}} = \sqrt[2]{81^3}$
$\left(\frac{a}{b}\right)^{-n} = \left(\frac{b}{a}\right)^n$	$\left(\frac{3}{4}\right)^{-2} = \left(\frac{4}{3}\right)^2$
$\frac{a^{-n}}{b^{-m}} = \frac{b^m}{a^n}$	$\frac{3^{-2}}{4^{-5}} = \frac{4^5}{3^2}$