

Darbības ar pakāpēm

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| $a^m \cdot a^n = a^{m+n}$ | $b^5 \cdot b^4 = b^9$; $3^2 \cdot 3^3 = 3^5 = 243$; $8 \cdot 2^4 = 2^3 \cdot 2^4 = 2^7 = 128$ |
| $a^m : a^n = a^{m-n}$ | $x^7 : x^2 = x^5$; $5^8 : 5^5 = 5^3 = 125$; $128 : 2^3 = 2^7 : 2^3 = 2^4 = 16$ |
| $(a^m)^n = a^{m \cdot n}$ | $(8^3)^n = 8^{3n}$; $(11^3)^8 = 11^{24}$; $125^6 = (5^3)^6 = 5^{18}$ |
| $(ab)^m = a^m \cdot b^m$ | $(ab)^5 = a^5 b^5$; $(x^3 y)^4 = x^{12} y^4$; $8^5 = (2 \cdot 4)^5 = 2^5 \cdot 4^5$ |
| $\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m}$ | $\left(\frac{x}{y}\right)^7 = \frac{x^7}{y^7}$; $\left(\frac{2}{3}\right)^3 = \frac{2^3}{3^3} = \frac{8}{27}$ |
| $a^{-n} = \frac{1}{a^n}$ | $z^{-9} = \frac{1}{z^9}$; $6^{-2} = \frac{1}{6^2} = \frac{1}{36}$ |
| $\left(\frac{a}{b}\right)^{-n} = \left(\frac{b}{a}\right)^n$ | $\left(\frac{2}{3}\right)^{-2} = \left(\frac{3}{2}\right)^2 = \frac{3^2}{2^2} = \frac{9}{4} = 2\frac{1}{4}$ |

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