

Properties of exponents

The rules to chapter 7's exponential exponent analysis

1 $a^m \cdot a^n = a^{m+n}$

2 $(a^m)^n = a^{m \cdot n}$

3 $(ab)^m = a^m b^m$

4 $a^{-n} = \frac{1}{a^n}$

5 $a^0 = 1$ $a \neq 0$

6 $\frac{a^m}{a^n} = a^{m-n}$

7 $\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m}$

1 $a^{m+n} \cdot a^n$

2 $(a^m)^n$

3 $(a \cdot b)^m$

So...

4 $\frac{a^{-n}}{1} = \frac{1}{a^n}$

5 anything⁰ = 1!

6 $\frac{a^m}{a^n} = a^{m-n}$

7 $\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m}$

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