

Answer on Question #81722 – Math – Algebra

Question

Laws of indices

Solution

1-st Law: $a^n * a^m = a^{n+m}$.

2-nd Law: $\frac{a^n}{a^m} = a^{n-m}$.

3-rd Law: $(a^m)^n = a^{mn}$.

4-th Law: $a^0 = 1$, ($a \neq 0$).

5-th Law: $a^{-m} = \frac{1}{a^m}$.

6-th Law: $a^{\frac{n}{m}} = \sqrt[m]{a^n}$.