TEXAN
GLOBAL SCHOOL
Global Online Learning

LEYES DE LOS EXPONENTES Y RADICALES

1. $a^0 = 1$
2. $a^1 = a$
3. $a^{-1} = \frac{1}{a}$
4. $a^{-n} = \frac{1}{a^n}$
5. $a^n \cdot a^m = a^{n+m}$
6. $a^n \cdot a^{-m} = a^{n-m}$
7. $(a^m)^n = a^{m \cdot n}$
8. $(a \cdot b)^m = a^m \cdot b^m$
9. $\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$
10. $\left(\frac{a^n}{a^m}\right) = a^n \cdot a^{-m}$
11. $\left(\frac{a^n}{a^m}\right) = \frac{1}{a^m \cdot a^{-n}}$
12. $\sqrt[n]{a} = a^{\frac{1}{n}}$
13. $\sqrt[n]{a^m} = a^{\frac{m}{n}}$
14. $\sqrt[n]{ab} = \sqrt[n]{a} \cdot \sqrt[n]{b} = a^{\frac{1}{n}} \cdot b^{\frac{1}{n}} = (ab)^{\frac{1}{n}}$
15. $\sqrt[n]{\frac{a}{b}} = \frac{\sqrt[n]{a}}{\sqrt[n]{b}} = \frac{a^{\frac{1}{n}}}{b^{\frac{1}{n}}} = \left(\frac{a}{b}\right)^{\frac{1}{n}}$
16. $\sqrt[n]{\sqrt[m]{a}} = \sqrt[n \cdot m]{a}$

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