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PROPRIEDADES DAS POTÊNCIAS

$$\text{I) } a^m \cdot a^n = a^{m+n}$$

$$\text{II) } \frac{a^m}{a^n} = a^{m-n}$$



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

$$\text{IV) } \sqrt[n]{a^m} = a^{\frac{m}{n}}$$



$$\text{V) } (a \cdot b)^m = a^m \cdot b^m$$

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



$$\text{VII) } \left(\frac{a}{b}\right)^{-m} = \left(\frac{b}{a}\right)^m$$

$$\text{VIII) } \frac{n}{a^m} = n \cdot a^{-m}$$