October 2, 2019 2:14 PM

Ex: Simplify (write as I power):

$$0.3 \cdot 0.3$$
 $\times^m \cdot \times^n = \times^{m+n}$

$$= 0.3^{-3+5} = 0.3^{2}$$

$$E \times i \left[\left(\frac{-3}{2} \right)^{\frac{1}{2}} \cdot \left[\left(\frac{-3}{2} \right)^{\frac{1}{2}} \right]^{\frac{3}{2}} \right] = \chi^{m \cdot n}$$

$$\left(\frac{-3}{2}\right)^{-4^{2}} \cdot \left(\frac{-3}{2}\right)^{2\kappa^{3}} = \left(\frac{-3}{2}\right)^{-8} \cdot \left(\frac{-3}{2}\right)^{6} = \sum_{k=1}^{\infty} \left(\frac{-3}{2}\right)^{6} = \sum_{k$$

 $\Rightarrow \chi^m \cdot \chi^n = \chi^{m+n}$

$$= \left(\frac{-3}{3}\right)^{-\frac{2}{3}} = \left(\frac{-3}{3}\right)^{$$

$$Ex: \left(\frac{1}{\sqrt{3}}, \frac{1}{\sqrt{3}}, \frac{1}{\sqrt{3}}\right) = x^m \cdot x^n$$

$$= \frac{7^{3_3 \times 6}}{7^{4_3 \times 6} \cdot 7^{5_3 \times 6}} = \frac{7^{12/3}}{7^{6/3} \cdot 7^{30/3}} = \frac{7^4}{7^2 \cdot 7^{10}}$$

$$= \frac{7^{4}}{7^{2+10}} = \frac{7^{4}}{7^{12}} = \frac{\chi^{m-n}}{\chi^{n}}$$

$$= 7^{4-12} = 7^{-8} \Rightarrow x^{-m} = \frac{1}{x^m}$$