

August 20, 2018  
Exponents

$$a^{\textcircled{n}} \leftarrow \text{exponent} = \underbrace{a \cdot a \cdot a \dots a}_{\text{factors}}$$

↑  
Base

$$5^{\textcircled{3}} \leftarrow \text{exp} = 5 \cdot 5 \cdot 5$$

↑  
base

Aug 20-9:54 AM

Laws

$$x^2 \cdot x^3 = x^{2+3=5}$$

same base

$$x \cdot x \cdot x \cdot x \cdot x = x^5$$

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$$\underbrace{2^3 \cdot 2^4}_{\text{base}} = 2^7$$

$$\underbrace{(x^3)^2}_{\text{base}} = x^3 \cdot x^3$$

$$= x \cdot x \cdot x \cdot x \cdot x \cdot x = x^6$$

Aug 20-10:44 AM