

Rule  $\Rightarrow$

$$x^a \cdot x^b =$$

Rule  $\Rightarrow$

$$(x^a)^b =$$

Rule  $\Rightarrow$

$$\frac{x^a}{x^b} =$$

Examples

$$6^3 \cdot 6^4 =$$

$$(-3)^5 \cdot (-3)^8$$

Examples

$$(5^3)^2$$

$$(2^2)^5$$

Examples

$$\frac{4^7}{4^3}$$

$$\frac{7^3}{7^5}$$

# Properties of Exponents

**Quotient**  
**Rule**

**Power**  
**Rule**

**Product**  
**Rule**