# LAWS OF EXPONENTS

### Law

1. 
$$a^m a^n = a^{m+n}$$

2. 
$$\frac{a^m}{a^n} = a^{m-n}$$

3. 
$$(a^m)^n = a^{mn}$$

$$4. (ab)^n = a^n b^n$$

$$5. \left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$$

$$6. \left(\frac{a}{b}\right)^{-n} = \left(\frac{b}{a}\right)^n$$

7. 
$$\frac{a^{-n}}{b^{-m}} = \frac{b^m}{a^n}$$

## Example

$$3^2 \cdot 3^5 = 3^{2+5} = 3^7$$

$$\frac{3^5}{3^2} = 3^{5-2} = 3^3$$

$$(3^2)^5 = 3^{2\cdot 5} = 3^{10}$$

$$(3 \cdot 4)^2 = 3^2 \cdot 4^2$$

$$\left(\frac{3}{4}\right)^2 = \frac{3^2}{4^2}$$

$$\left(\frac{3}{4}\right)^{-2} = \left(\frac{4}{3}\right)^2$$

$$\frac{3^{-2}}{4^{-5}} = \frac{4^5}{3^2}$$

# **Algebra Extending The Law Of Exponents Key**

**G Psacharopoulos** 

#### **Algebra Extending The Law Of Exponents Key:**

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