

Dividing Indices

When **dividing indices** with the **same base**, **subtract the powers**.

$$a^m \div a^n = a^{m-n}$$

 Example

Simplify $a^5 \div a^3$

$$a^5 \div a^3 = a^{5-3} = a^2$$

 Example

Simplify $a^3 \div a^5$

$$a^3 \div a^5 = a^{3-5} = a^{-2}$$