



Revision Guides

Exponents Rules

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Introduction

When we start working with the Exponents... and we need to perform operations with exponents, we need to follow some rules in order to simplify these mathematical expression.

The laws of exponents are more just "tricks" or short cuts that help us work with exponents.

Rule - 1

Quotient Rule

The quotient rule is one of the exponent rules that makes it easy to divide two exponents, or powers, with the same base.

The quotient rule says that when you are dividing same bases with exponents, you can simply subtract the two exponents and keep the same base.

$$\frac{x^m}{x^n} = x^{m-n}$$

Example

Let's try to apply this
rule -

Look at this example

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

Can we simplify this?

$$\frac{3^7}{3^5} = 3^{7-5} = 3^2$$

Well that was easy
Isn't it?

Rule - 2

Zero Rule

According to the "zero rule," any nonzero number raised to the power of zero equals 1.

$$x^0 = 1$$

Here the base x non zero number.

So, if the exponent is 0 then you get the result 1 whatever the base is.



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