General Leibniz rule

This text is just a stub.

Objectives. Recall the general Leibniz rule for the nth derivative of the product of two functions.

Requirements. Derivative of the product of two functions, Binomial Theorem.

Exercise 1. Expand:

$$(a+b)^2 =$$

$$(a+b)^3 =$$

Exercise 2. Recall the Binomial Theorem:

Exercise 3. Calculate derivatives:

$$(fg)' =$$

$$(fq)'' =$$

$$(fg)''' =$$

Exercise 4. Write the general formula (general Leibniz rule):

$$(fq)^{(n)} =$$