Section 3.3: Derivatives of Products and Quotients

**Topic 1: Derivatives of Products**

The derivative of a product is called the **Product Rule:**

If  and if  and  exist, then .

It can also be written as  or .

**Topic 2: Derivatives of Quotients**

The derivative of a quotient is called the **Quotient Rule:**

If  and if  and  exist and , then  .

It can also be written as  or  .