$f(x)$	$f'(x)$
$c = const$	0
x^{α}	$\alpha x^{\alpha-1}$
e^x	e^x
a^x	$a^x \ln a$
$\ln x$	$\frac{1}{x}$
$\log_a x$	$\frac{1}{x \ln a}$

$f(x)$	$f'(x)$
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$$(f(x) \pm g(x))' = f'(x) \pm g'(x)$$

$f(x)$	$f'(x)$
$c = const$	0
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$$(f(x) \pm g(x))' = f'(x) \pm g'(x)$$

$$(c \cdot f(x))' = c \cdot f'(x)$$

$f(x)$	$f'(x)$
$c = const$	0
x^α	$\alpha x^{\alpha-1}$
e^x	e^x
a^x	$a^x \ln a$
$\ln x$	$\frac{1}{x}$
$\log_a x$	$\frac{1}{x \ln a}$

$$(f(x) \pm g(x))' = f'(x) \pm g'(x)$$

$$(c \cdot f(x))' = c \cdot f'(x)$$

$$(f(x) \cdot g(x))' = f'(x) \cdot g(x) + f(x) \cdot g'(x)$$

$f(x)$	$f'(x)$
$c = const$	0
x^{α}	$\alpha x^{\alpha-1}$
e^x	e^x
a^x	$a^x \ln a$
$\ln x$	$\frac{1}{x}$
$\log_a x$	$\frac{1}{x \ln a}$

$$(f(x) \pm g(x))' = f'(x) \pm g'(x)$$

$$(c \cdot f(x))' = c \cdot f'(x)$$

$$(f(x) \cdot g(x))' = f'(x) \cdot g(x) + f(x) \cdot g'(x)$$

$$\left(\frac{f(x)}{g(x)}\right)' = \frac{f'(x) \cdot g(x) - f(x) \cdot g'(x)}{g^2(x)}, \ \ g(x) \neq 0$$

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$$(f(x) \cdot g(x))' = f'(x) \cdot g(x) + f(x) \cdot g'(x)$$

$$\left(\frac{f(x)}{g(x)}\right)' = \frac{f'(x) \cdot g(x) - f(x) \cdot g'(x)}{g^2(x)}, \quad g(x) \neq 0$$

$$\Big((f \circ g)(x)\Big)' = \Big(f(g(x))\Big)' = f'(g(x)) \cdot g'(x)$$