

$$c' = 0 \quad (1)$$

$$x' = 1 \quad (2)$$

$$(f(g(x)))' = f'(g(x))g'(x) \quad (3)$$

$$(f(x) + g(x))' = f'(x) + g'(x) \quad (4)$$

$$(f(x) - g(x))' = f'(x) - g'(x) \quad (5)$$

$$(f(x)g(x))' = f'(x)g(x) + f(x)g'(x) \quad (6)$$

$$\left(\frac{f(x)}{g(x)}\right)' = \frac{f'(x)g(x) - f(x)g'(x)}{g(x)^2} \quad (7)$$

$$(f(x)^c)' = cf(x)^{c-1}f'(x) \quad (8)$$

$$\left(c^{g(x)}\right)' = c^{g(x)}\ln(c)g'(x) \quad (9)$$

$$\left(f(x)^{g(x)}\right)' = f(x)^{g(x)}\left(\frac{f'(x)g(x)}{f(x)} + g'(x)\ln(f(x))\right) \quad (10)$$

$$\operatorname{sgn}'(x) = 0 \quad (11)$$

$$(|x|)' = \operatorname{sgn}(x) \quad (12)$$

$$(\sqrt{x})' = \frac{1}{2\sqrt{x}} \quad (13)$$

$$\exp'(x) = \exp(x) \quad (14)$$

$$\ln'(x) = \frac{1}{x} \quad (15)$$

$$\sin'(x) = \cos(x) \quad (16)$$

$$\cos'(x) = -\sin(x) \quad (17)$$

$$\tan'(x) = \sec(x)^2 \quad (18)$$

$$\cot'(x) = -\csc(x)^2 \quad (19)$$

$$\sec'(x) = \sec(x)\tan(x) \quad (20)$$

$$\csc'(x) = -\csc(x)\cot(x) \quad (21)$$

$$\operatorname{asin}'(x) = \sec(\operatorname{asin}(x)) \quad (22)$$

$$\operatorname{acos}'(x) = -\csc(\operatorname{acos}(x)) \quad (23)$$

$$\operatorname{atan}'(x) = \cos(\operatorname{atan}(x))^2 \quad (24)$$

$$\operatorname{acot}'(x) = -\sin(\operatorname{acot}(x))^2 \quad (25)$$

$$\operatorname{asec}'(x) = \cos(\operatorname{asec}(x))\cot(\operatorname{asec}(x)) \quad (26)$$

$$\operatorname{acsc}'(x) = -\sin(\operatorname{acsc}(x))\tan(\operatorname{acsc}(x)) \quad (27)$$

$$\sinh'(x) = \cosh(x) \quad (28)$$

$$\cosh'(x) = \sinh(x) \quad (29)$$

$$\tanh'(x) = \operatorname{sech}(x)^2 \quad (30)$$

$$\coth'(x) = -\operatorname{csch}(x)^2 \quad (31)$$

$$\operatorname{sech}'(x) = -\operatorname{sech}(x)\tanh(x) \quad (32)$$

$$\operatorname{csch}'(x) = -\operatorname{csch}(x)\coth(x) \quad (33)$$

$$\operatorname{asinh}'(x) = \operatorname{sech}(\operatorname{asinh}(x)) \quad (34)$$

$$\operatorname{acosh}'(x) = \operatorname{csch}(\operatorname{acosh}(x)) \quad (35)$$

$$\operatorname{atanh}'(x) = \cosh(\operatorname{atanh}(x))^2 \quad (36)$$

$$\operatorname{acoth}'(x) = -\sinh(\operatorname{acoth}(x))^2 \quad (37)$$

$$\operatorname{asech}'(x) = -\cosh(\operatorname{asech}(x))\coth(\operatorname{asech}(x)) \quad (38)$$

$$\operatorname{acsch}'(x) = -\sinh(\operatorname{acsch}(x))\tanh(\operatorname{acsch}(x)) \quad (39)$$