$$
\begin{aligned}
(f+g)'(x) &= f'(x)+g'(x) \\
(f\cdot g)'(x) &= f'(x)\cdot g(x)+f(x)\cdot g'(x) \\
\left(\frac{f}{g}\right)'(x) &= \frac{f'(x)\cdot g(x)-f(x)\cdot g'(x)}{g^2(x)} \\
(f\circ g)'(x) &= f'(g(x))\cdot g'(x) \\
((C\cdot f)'(x) &= C\cdot f'(x))
\end{aligned}
$$

$$
\begin{aligned}
\mathrm{C}' &= 0 & (\arctan x)' &= \frac{1}{1+x^2} \\
(x^\alpha)' &= \alpha x^{\alpha-1} & (\operatorname{arccot} x)' &= -\frac{1}{1+x^2} \\
(\sin x)' &= \cos x & (\mathrm{a}^x)' &= \mathrm{a}^x\cdot\ln \mathrm{a} \\
(\cos x)' &= -\sin x & (\ln x)' &= \frac{1}{x} \\
(\arcsin x)' &= \frac{1}{\sqrt{1-x^2}} & (\sinh x)' &= \cosh x \\
(\arccos x)' &= -\frac{1}{\sqrt{1-x^2}} & (\cosh x)' &= \sinh x
\end{aligned}
$$