1. $\frac{d}{dx}[cu] = cu'$

2. $\frac{d}{dx}[u \pm v] = u' \pm v'$

3. $\frac{d}{dx}[uv] = uv' + vu'$

4. $\frac{d}{dx}\left[\frac{u}{v}\right] = \frac{vu' - uv'}{v^2}$

5. $\frac{d}{dx}[c] = 0$

6. $\frac{d}{dx}[u^n] = nu^{n-1}u'$

7. $\frac{d}{dx}[x] = 1$

8. $\frac{d}{dx}[|u|] = \frac{u}{|u|}(u'),\ u \neq 0$

9. $\frac{d}{dx}[\ln u] = \frac{u'}{u}$

10. $\frac{d}{dx}[e^u] = e^u u'$

11. $\frac{d}{dx}[\sin u] = (\cos u)u'$

12. $\frac{d}{dx}[\cos u] = -(\sin u)u'$

13. $\frac{d}{dx}[\tan u] = (\sec^2 u)u'$

14. $\frac{d}{dx}[\cot u] = -(\csc^2 u)u'$

15. $\frac{d}{dx}[\sec u] = (\sec u \tan u)u'$

16. $\frac{d}{dx}[\csc u] = -(\csc u \cot u)u'$

17. $\frac{d}{dx}[\arcsin u] = \frac{u'}{\sqrt{1 - u^2}}$

18. $\frac{d}{dx}[\arccos u] = \frac{-u'}{\sqrt{1 - u^2}}$

19. $\frac{d}{dx}[\arctan u] = \frac{u'}{1 + u^2}$

20. $\frac{d}{dx}[\operatorname{arccot} u] = \frac{-u'}{1 + u^2}$

21. $\frac{d}{dx}[\operatorname{arcsec} u] = \frac{u'}{|u|\sqrt{u^2 - 1}}$

22. $\frac{d}{dx}[\operatorname{arccsc} u] = \frac{-u'}{|u|\sqrt{u^2 - 1}}$