1. $\frac{d}{dx}(f+g) = \frac{df}{dx} + \frac{dg}{dx}$
2. $\frac{d}{dx}(cf) = c\frac{df}{dx}$
3. $\frac{d}{dx}(fg) = f\frac{dg}{dx} + g\frac{df}{dx}$
4. $\frac{d}{dx}\left(\frac{f}{g}\right) = \frac{g\frac{df}{dx} - f\frac{dg}{dx}}{g^2}$
5. $\frac{d}{dx}(c) = 0$
6. $\frac{d}{dx}(x^\alpha) = \alpha x^{\alpha-1}$
7. $\frac{d}{dx}\sin(x) = \cos(x)$
8. $\frac{d}{dx}\cos(x) = -\sin(x)$
9. $\frac{d}{dx}\tan(x) = \sec^2(x)$
10. $\frac{d}{dx}\sec(x) = \sec(x)\tan x$
11. $\frac{d}{dx}\csc(x) = -\csc(x)\cot(x)$
12. $\frac{d}{dx}\cot(x) = -\csc^2(x)$
13. $\frac{d}{dx}\sinh(x) = \cosh(x)$
14. $\frac{d}{dx}\cosh(x) = \sinh(x)$
15. $\frac{d}{dx}\tanh(x) = \operatorname{sech}^2(x)$
16. $\frac{d}{dx}\operatorname{sech}(x) = -\operatorname{sech}(x)\tanh x$
17. $\frac{d}{dx}\operatorname{csch}(x) = -\operatorname{csch}(x)\coth(x)$
18. $\frac{d}{dx}\coth(x) = -\operatorname{csch}^2(x)$
19. $\frac{d}{dx}(c^x) = c^x\ln(c)$
20. $\frac{d}{dx}(\log_a(x)) = \frac{1}{\ln(a)x}$
21. $\frac{d}{dx}\sinh^{-1}x = \frac{1}{\sqrt{1+x^2}}$
22. $\frac{d}{dx}\cosh^{-1}x = \frac{1}{\sqrt{x^2-1}}$, for $x > 1$
23. $\frac{d}{dx}\tanh^{-1}x = \frac{1}{\sqrt{1-x^2}}$, for $|x| < 1$
24. $\frac{d}{dx}\coth^{-1}x = \frac{1}{\sqrt{1-x^2}}$, for $|x| > 1$
25. $\frac{d}{dx}\operatorname{sech}^{-1}x = \frac{1}{x\sqrt{1-x^2}}$, for $0 < x < 1$
26. $\frac{d}{dx}\operatorname{csch}^{-1}x = \frac{1}{|x|\sqrt{1+x^2}}$, for $x \neq 0$
27. $(f\circ g)'(x) = f'(g(x))g'(x)$
28. $\frac{dy}{dx} = \frac{dy}{du}\frac{du}{dx}$
29. $\frac{d}{dx}\sin^{-1}(x) = \frac{1}{\sqrt{1-x^2}}$, for $|x| < 1$
30. $\frac{d}{dx}\cos^{-1}(x) = \frac{-1}{\sqrt{1-x^2}}$ for $|x| < 1$
31. $\frac{d}{dx}\tan^{-1}(x) = \frac{1}{1+x^2}$
32. $\frac{d}{dx}\cot^{-1}(x) = \frac{-1}{1+x^2}$
33. $\frac{d}{dx}\sec^{-1}(x) = \frac{1}{|x|\sqrt{x^2-1}}$ for $|x| > 1$
34. $\frac{d}{dx}\csc^{-1}(x) = \frac{-1}{|x|\sqrt{x^2-1}}$ for $|x| < 1$

35. $\dfrac{d}{dx}\displaystyle\int_{u(x)}^{v(x)} f(t)dt = f(v(x))v'(x) - f(u(x))u'(x)$

36. $\int_a^b f'(t)dt = f(b) - f(a)$

37. $\sin^2 x + \cos^2 x = 1$

38. $\cosh^2 x - \sinh^2 x = 1$

39. $\sin(x+y) = \sin(x)\cos(y) + \cos(x)\sin(y)$

40. $\cos(x+y) = \cos(x)\cos(y) - \sin(x)\sin(y)$

41. $\sin mx \sin nx = \dfrac{\cos(m-n)x - \cos(m+n)x}{2}$

42. $\sin mx \cos nx = \dfrac{\sin(m-n)x + \sin(m+n)x}{2}$

43. $\cos mx \cos nx = \dfrac{\cos(m-n)x + \cos(m+n)x}{2}$

44. $\sinh(2x) = 2\sinh(x)\cosh(x)$

45. $\cosh(2x) = \cosh^2 x + \sinh^2 x$

46. $\cos^2(x) = \dfrac{1+\cos(2x)}{2}$

47. $\sin^2(x) = \dfrac{1-\cos(2x)}{2}$

48. $\sin(0) = \cos(\pi/2) = 0$

49. $\cos(0) = \sin(\pi/2) = 1$

50. $\sin(\pi/6) = \cos(\pi/3) = 1/2$

51. $\cos(\pi/6) = \sin(\pi/3) = \sqrt{3}/2$

52. $\sin(\pi/4) = \cos(\pi/4) = \sqrt{2}/2$

53. Law of cosines: $c^2 = a^2 + b^2 - 2ab\cos(C)$

54. Law of sines: $\dfrac{\sin(A)}{a} = \dfrac{\sin(B)}{b} = \dfrac{\sin(C)}{c}$