1. $\frac{d}{dx}(\sin x) = \cos x$

2. $\frac{d}{dx}(\cos x) = -\sin x$

3. $\frac{d}{dx}(\tan x) = \sec^2 x$

4. $\frac{d}{dx}(\cot x = -\csc^2 x$

5. $\frac{d}{dx}(\sec x) = \sec x \tan x$

6. $\frac{d}{dx}(\csc x) = -\csc x \cot x$

7. $\frac{d}{dx}(\sinh x) = \cosh x$

8. $\frac{d}{dx}(\cosh x) = \sinh x$

9. $\frac{d}{dx}(\tanh x) = \operatorname{sech}^2 x$

10. $\frac{d}{dx}(\coth x) = -\operatorname{csch}^2 x$

11. $\frac{d}{dx}(\operatorname{sech} x) = -\operatorname{sech} x \tanh x$

12. $\frac{d}{dx}(\operatorname{csch} x) = -\operatorname{csch} x . \coth x$

1. $\frac{d}{dx}(\sin^{-1} x) = \frac{1}{\sqrt{1-x^2}}$

2. $\frac{d}{dx}(\cos^{-1} x) = -\frac{1}{\sqrt{1-x^2}}$

3. $\frac{d}{dx}(\tan^{-1} x) = \frac{1}{1+x^2}$

4. $\frac{d}{dx}(\cot^{-1} x) = -\frac{1}{1+x^2}$

5. $\frac{d}{dx}(\sec^{-1} x) = \frac{1}{|x|\sqrt{x^2-1}}$

6. $\frac{d}{dx}(\csc^{-1} x) = -\frac{1}{|x|\sqrt{x^2-1}}$

1. $\frac{d}{dx}(a^x) = a^x \ln a$

2. $\frac{d}{dx}(e^x) = e^x$

3. $\frac{d}{dx}(\log_a x) = \frac{1}{(\ln a)x}$

4. $\frac{d}{dx}(\ln x) = 1/x$