

1. $\frac{d}{dx}(c) = 0$, where c is a constant

2. $\frac{d}{dx}(x^n) = nx^{n-1}$, where n is any real number

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

4. $\frac{d}{dx}(\ln x) = \frac{1}{x}$, for $x > 0$

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

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