1. $(cf)' = cf'(x)$
2. $(f \pm g)' = f'(x) \pm g'(x)$
3. $(fg)' = f'g + fg'$ – **Product Rule**
4. $\left(\frac{f}{g}\right)' = \frac{f'g - fg'}{g^2}$ – **Quotient Rule**
5. $\frac{d}{dx}(c) = 0$
6. $\frac{d}{dx}\left(x^n\right) = nx^{n-1}$ – **Power Rule**
7. $\frac{d}{dx}\left(f(g(x))\right) = f'(g(x))g'(x)$

   This is the **Chain Rule**