Formulas of chapter 2

Exercise: 2.2

Note:

n belongs to power of x	,	f and g are the values
$\frac{d}{dx}(x) = 1$,	$\frac{d}{dx}(constant) = 0$

Power rule

$$\frac{d}{dx}(x^n) = nx^{n-1} \frac{d}{dx}(x)$$

Product rule

$$\frac{d}{dx}(f \cdot g) = f\frac{d}{dx}(g) + g\frac{d}{dx}(f)$$

Quotient rule

$$\frac{d}{dx}(\frac{f}{g}) = \frac{g\frac{d}{dx}(f) - f\frac{d}{dx}(g)}{g^2}$$

Sum or difference rule
$$\frac{d}{dx}(f+g) = \frac{d}{dx}f + \frac{d}{dx}g$$

$$\frac{d}{dx}(f-g) + \frac{d}{dx}f - \frac{d}{dx}g$$
Note: these rules are used in all exercise of chapter?