

$$\text{a) } 6\text{CO}_2 + 6\text{H}_2\text{O} \longrightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$$

$$\text{b) } \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{(x-\mu)^2}{2\sigma^2}}$$

$$\text{c) } \int_0^\infty e^{-x^2} dx = \frac{\sqrt{\pi}}{2}$$

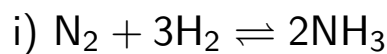
$$\text{d) } P(A \mid B) = \frac{P(B \mid A) P(A)}{P(B)}$$

$$\text{e) } F = G \frac{m_1 m_2}{r^2}$$

$$\text{f) } i\hbar \frac{\partial}{\partial t} \Psi(\mathbf{r}, t) = \left[ -\frac{\hbar^2}{2m} \nabla^2 + V(\mathbf{r}, t) \right] \Psi(\mathbf{r}, t)$$

$$\text{g) } \nabla \cdot \mathbf{E} = \frac{\rho}{\epsilon_0}$$

$$\text{h) } \binom{n}{k} = \frac{n!}{k!(n-k)!}$$



$$\text{j) } \sum_{n=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6}$$

$$\text{k) } H(X) = - \sum_{i=1}^n p(x_i) \log_2 p(x_i)$$