Name the following PMF/PDF/formula

- $p^x(1-p)^{1-x}$
- $\frac{1}{\sigma\sqrt{2\pi}}e^{\frac{-(x-\mu)^2}{2\sigma^2}}$
- $\frac{1}{\sqrt{(2\pi)^d|\Sigma|}}\exp(-\frac{1}{2}-(x-\mu)^T\Sigma^{-1}(x-\mu))$
- $$\begin{cases}\lambda e^{-\lambda x} & \text{if x} \geq 0 \\ 0 & \text{else}\end{cases}$$
- $\int_{a_1}^{a_2}\int_{b_1}^{b_2} f_{X,Y}(x,y)\,dx\,dy$
- $$\begin{cases}\frac{1}{b-a} & \text{if } a \leq x \leq b \\ 0 & \text{else}\end{cases}$$
- $$\begin{cases}\frac{1}{B(a,b)x^{a-1}(1-x)^{b-1}} & \text{if 0 <x <1} \\ 0 & \text{else}\end{cases}$$
- $\frac{\beta^\alpha}{\Gamma(\alpha)}x^{\alpha-1}e^{-\beta x}$
- $\frac{1}{B(\alpha)}\prod_{i=1}^K x_i^{\alpha_i-1}$ where $B(\alpha)=\frac{\prod_{i=1}^K\Gamma(\alpha_i)}{\Gamma(\sum_{i=1}^K\alpha_i)}$
- $\sum_{i=1}^K P(i)log\frac{P(i)}{Q(i)}$