

$$\begin{aligned}
 X^{\alpha-1} & e^{-\lambda X} \\
 X^{\alpha_0-1} & e^{-\beta_0 X} \\
 \lambda^{\alpha_0-1} & e^{-\beta_0 \lambda}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{1}{\sqrt{2\pi}\sigma} e^{-(x-\mu)^2/2\sigma^2} \\
 & (\lambda\delta_0)^{1/2} e^{-(x-\gamma_0)^2 \cdot \frac{\lambda\delta_0}{2}} \\
 & \lambda^{1/2} e^{-(\mu-\gamma_0)^2 \lambda\delta_0/2}
 \end{aligned}$$