$$\Gamma(\alpha) = \int_0^\infty x^{\alpha-1} e^{-x} dx; \text{ aso}$$

$$X \wedge E \times p(2) \qquad f(x) = \begin{cases} 2 \cdot e^{2x} ; x>0 \\ 0, \text{ m rest} \end{cases}$$

$$F(x) = \int_{-\infty}^{\infty} x f(x) = \int_{-\infty}^{\infty} x \cos x + \frac{1}{2} e^{-2x} dx$$

$$+ \int_{0}^{\infty} x 2e^{-2x} dx$$

$$B(a)b) = \int_{0}^{1} x^{a-1} (1-x)^{b-1} dx$$

$$\beta(a,b) = \frac{\Gamma(a) \cdot \Gamma(b)}{\Gamma(a+b)}$$