1) 
$$\langle x \rangle_B = \int_0^{\infty} x^{\alpha-1} dx$$

$$\langle x \rangle_B = \int_0^{\infty} (\frac{1}{u} + B)^{-1} \frac{dn}{u^2}$$

$$(\frac{1}{u})^2 (\frac{1}{u} + B)^{-1} = (\frac{1}{u})^2 \sum_{k_1 \neq k_2} x_{k_2 \neq k_3}$$

$$(-8 = \alpha - 1)$$

$$/X = \frac{1}{n+B}$$
or  $u = \frac{1}{X-B}$ 

$$X=B \rightarrow n=\infty$$

$$X=\infty \rightarrow n=0$$

$$Ax = -\frac{d^{4}u}{dx}$$

$$\frac{1}{2}$$

$$\left(\frac{1}{4}\right)^{2}\left(\frac{1}{2}+B\right)^{2} = \left(\frac{1}{4}\right)^{2} \sum_{k_{1}} \sum_{k_{2}} \phi_{k_{1}} \phi_{k_{2}} \left(\frac{1}{4}\right)^{k_{1}} \left(\frac{1}{2}\right)^{k_{2}} \left(\frac{1}{2}\right)^{$$

$$(\frac{1}{2})^{2} (\frac{1}{2} + B)^{2} = \sum_{k_{1} k_{2}} \frac{1}{2} \phi_{k_{1}} \phi_{k_{2}} \frac{(\frac{1}{2})^{k_{1}+2}}{(\frac{1}{2})^{k_{2}}} \frac{(1-\alpha)^{k_{2}}}{(1-\alpha)^{k_{2}}}$$

$$4 = 2\left(\frac{1}{n}\right)^{k_1+2}$$

$$\langle \alpha \rangle_{B} = n \int_{0}^{\infty} \left(\frac{1}{n}\right)^{k_{1}+2} du$$

$$V_{i}a = \frac{1}{h} = x \qquad h = \infty \quad x = \infty \qquad du = -d$$

$$\int_{3}^{\infty} \left(\frac{1}{n}\right)^{k_1+2} du = \int_{3}^{\infty} \frac{x^{1+2}}{x^{2}} \frac{dx}{dx} = \int_{3}^{\infty} \frac{x^{1}}{n} dx$$

$$A = \int_{0}^{\infty} x^{k_{1}} dx = h \langle k_{1}+1 \rangle$$

$$= x \text{ expandial } h$$

$$= \sum_{k_{1}} \sum_{k_{2}} d_{k_{1}} d_{k_{2}} \langle k_{1}+1 \rangle \langle B \rangle \langle 1-\alpha+k_{1}+k_{2} \rangle$$

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2) teniendo auxbractet injerio-

$$\langle \alpha \rangle_B = \int_B^\infty \chi^{\alpha-1} dx$$

querema crasibracket supono

Sabens

$$\int_{B}^{B} f(x) dx + \int_{B}^{\infty} f(x) dx = \int_{0}^{\infty} f(x) dx$$

reordenando

$$-\int_{B}^{\infty} f(x) dx + \int_{0}^{\infty} f(x) dx = \int_{0}^{\infty} f(x) dx$$

(01 fix) = X x-1

$$\int_{0}^{\infty} x^{d-1} dx - \int_{B}^{\infty} x^{d-1} dx = \int_{0}^{B} x^{d-1} dx$$

3) 
$$f(x) = \sum_{n} \oint_{\Gamma(n)} F(n) \times X$$

$$T = \int_{B}^{B} f(x) dx = \sum_{n} \oint_{\Gamma(n)} F(n) \times X$$

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$$\int_{B}^{B} f(x) dx = \sum_{n} f(n) \times X$$

$$\int_{A}^{B} f(n) \int_{B}^{B} f(n) \times X$$

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$$\int_{B}^{B} f(n) \int_{B}^{B} f(n) \int_{B}^{B} f(n) \int_{B}^{B} f(n) \times X$$

$$\int_{B}^{B} f(n) \int_{B}^{B} f(n$$

$$J = I - \frac{\sum \phi_n F(n)}{|\alpha|} \left[ \frac{\sum \phi_{k_1} B^{k_2}}{|\alpha|} \left( \frac{x_2 - \alpha}{\alpha} \right) \right] \frac{1}{\Gamma(1-\alpha)}$$

$$\frac{\sum \phi_n B^{k_2}}{|\alpha|} \left( \frac{x_2 - \alpha}{\beta} \right)$$

$$J = \frac{1}{|\alpha|} \sum_{n} \phi_{n} + \epsilon_{(n)} \langle n + \beta \rangle$$

$$J = \frac{1}{|\alpha|} F(n) \Gamma(-n) \Big|_{n = \frac{p}{\alpha}}$$

$$I = \frac{1}{|\alpha|} F(-\frac{p}{\alpha}) \Gamma(\frac{p}{\alpha})$$

$$J = I - \frac{1}{|\alpha|} \sum_{n} \phi_{n} F(n) B^{n+p} \Gamma(\alpha n + \beta)$$

$$\Gamma(1 = \alpha n + \beta)$$