

Jan p, a ____ da

I'(p) - worehold = $\int ... dx$ I(p) - reve

-> Begge burny suchosekry

 $-\int \exp(-y^{x})dy = \frac{\exp(-y^{x})}{-x}\Big|_{y=0}^{y=0}$

$$=\frac{1}{\kappa}$$

- hoppenha c neposekælle

$$\int_{x}^{\infty} \frac{\sin b}{x} dx = \dots = \frac{x}{2}$$

$$\int_{0}^{\infty} \frac{\cos \delta x}{1+x^{2}} = \frac{\pi}{2} \cdot \exp(-\delta)$$

- no racion

LLU

$$I(p) = \int_{\infty}^{\infty} \frac{1}{x^{2}} dx$$

$$I(p)$$

 $= \int_{0}^{\infty} \frac{\int \rho \cdot du}{\rho \cdot u^{2} + \rho} = \int_{0}^{\infty} \frac{\partial u}{u^{2} + 1} = \int_{0}^{\infty} \frac{\partial u}{\partial u^{2} + 1} = \int_{0}^{\infty} \frac{\partial u}{\partial u} = \int_{0}^{\infty} \frac{\partial u}{\partial u} = \int_{0}^{\infty} \frac{\partial u}{\partial u} = \int_{0}^{\infty} \frac{\partial$

 $I_n = \int \frac{1}{(x^2 + p)^n} dp = \int (x^2 + p)^{-n} dp$ $I_n = \int \frac{1}{(x^2 + p)^n} dp = \int (x^2 + p)^{-n} dp$ $\sum_{n=1}^{\infty} (-n) \cdot (x^2 + p)^{-n-1} dp = (-n) \cdot I_{n+1}$ $\boxed{\prod_{n=(-n)} \cdot \prod_{n \neq i}}$ $I_{n+1} = -\frac{1}{2}I_{n}$ $I_{n+1} = -\frac{1}{2}(-\frac{1}{2})p^{-\frac{3}{2}}(-\frac{1}{2})p^{-\frac{3}{2}}(-\frac{1}{2})$ $T_{3} = \frac{\pi}{2} \left(-\frac{1}{2} \right) \left(-\frac{3}{2} \right) p^{-\frac{5}{2}} \left(-\frac{1}{2} \right) p^{-\frac{5}{2}} \left(T_n = \frac{\pi}{2} \cdot p - \frac{2n-1}{2n-1} \cdot \frac{1}{(n-1)!}$ double factoral 9!! = 9.7.5.3.1 Thou Perhuaria.

Repaired Some emporation
$$M(u) = E(\exp(ux)) = \int_{0}^{\infty} \exp(ux) \cdot \lambda \exp(-\lambda x) dx$$

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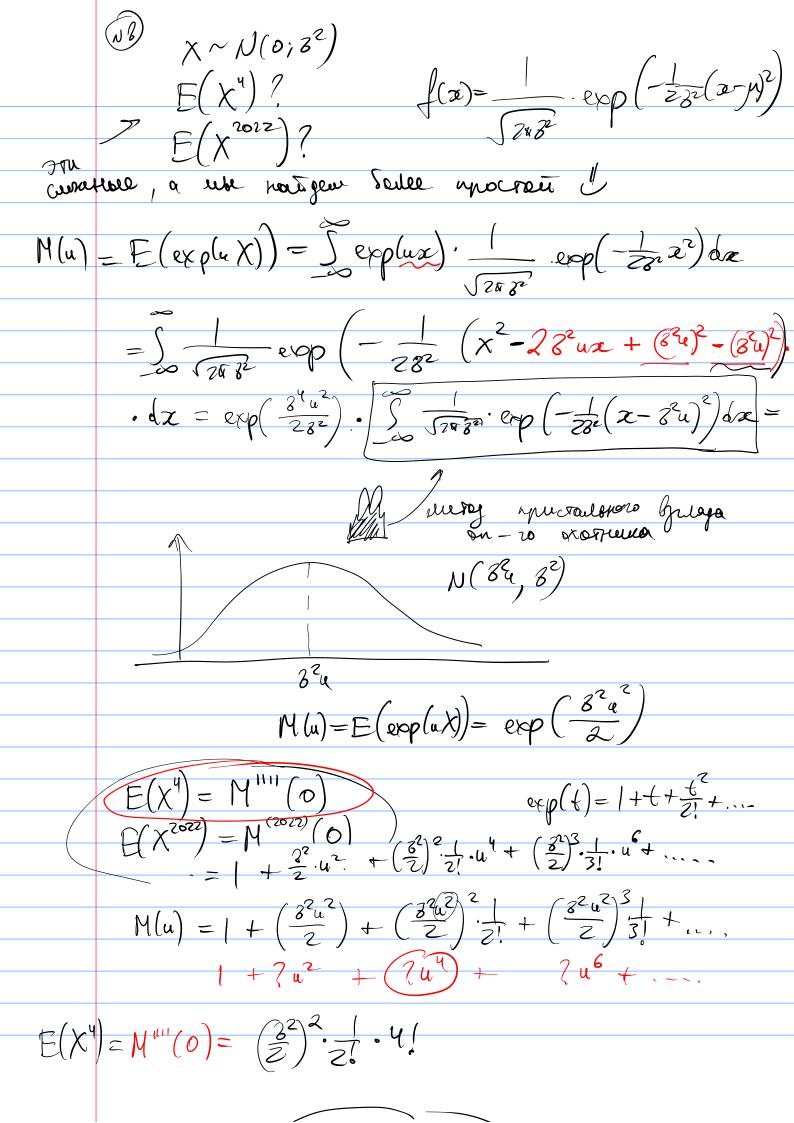
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$$E(x^{2002}) = N^{(2002)}(0) = \left(\frac{2^2}{2}\right)^{1011} \cdot \frac{1}{1011!} \cdot 2022!$$

$$= 3^{2022} \cdot 2022 \cdot 2020 \cdot 2020 \cdot 2013 \cdot \dots \cdot 32 \cdot 22 \cdot 24$$

$$= 3^{2022} \cdot 202!!!$$

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$$= 3^{202$$