## Tymber I

Thou Perkusha 
$$I(p) = \longrightarrow I'(p)$$

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$$\int \frac{\sin px}{x} dx = \frac{1}{2} \cdot \exp(-p)$$

$$\int \frac{\cos(px)}{x} dx = \frac{1}{2} \cdot \exp(-p)$$

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$$\int_{0}^{\infty} \left( \frac{\sin px}{x} \right)^{2} dx = I(p)$$

$$= I'(p)$$

$$= \boxed{\begin{array}{c} \hline (p) \\ \hline \end{array}}$$

$$I(p) = \int_{0}^{\infty} \left(\frac{\sin px}{x}\right)^{2} dx$$

$$I(p) = \int_{0}^{\infty} \frac{2\sin px}{x} \cdot \omega px dx = \frac{1}{2}$$

$$\left(\frac{\sin px}{x}\right)^2 \leq \frac{1}{x^2}$$

$$=\int_{0}^{\infty} \frac{\sin(2px)}{x} dx = \int_{0}^{\infty} \frac{\sin(2px)}{2px} dx = \int_{0}^{\infty} \frac{\sin(2px)}{2px} dx = \int_{0}^{\infty} \frac{\sin(2px)}{2px} dx$$

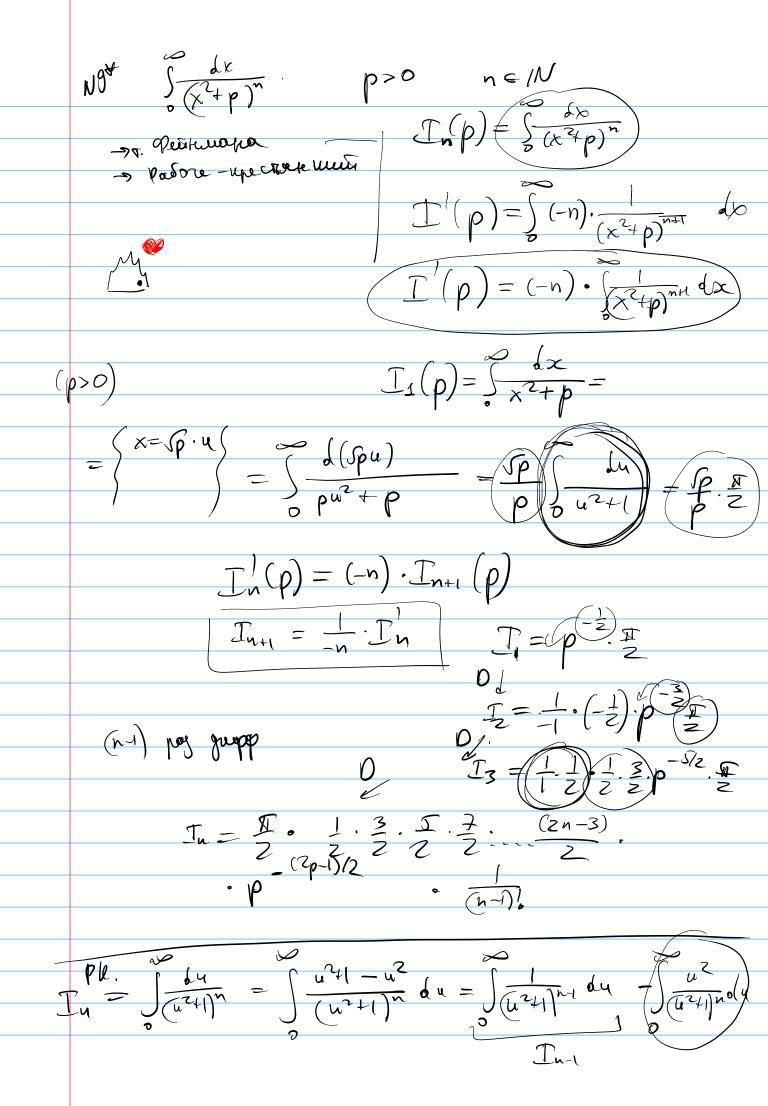
$$T(p) = \frac{\pi}{2} \cdot p + C$$

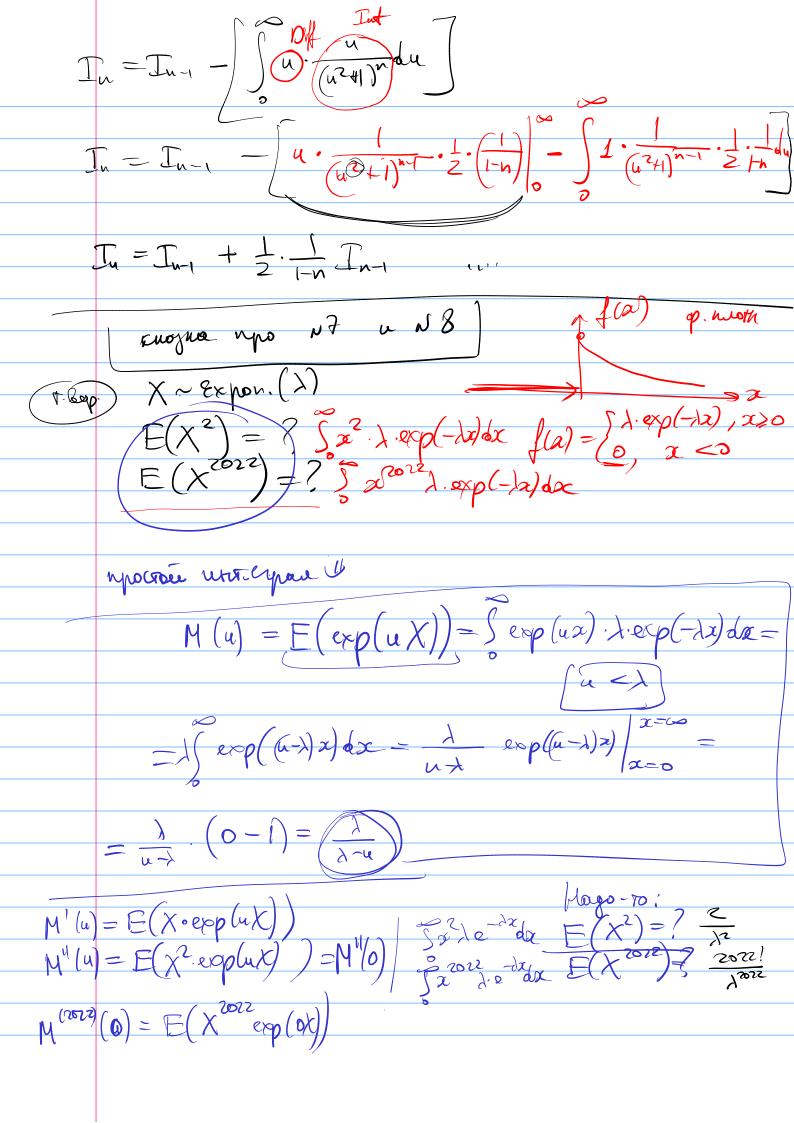
$$T(0) = 0$$

$$T(p) = \frac{\pi}{2} \cdot p + C$$

$$T(p) = \frac{\pi}{2} \cdot p$$

$$T(p) = \frac{\pi}{2} \cdot p$$





$$| \frac{1}{1-q} = 1 + p + p^{2} + p^{3} + p^{4}$$

$$| \frac{1}{1-q} = \frac{1$$

$$E(2^{4}) = M^{44}(0)$$

$$E(2^{2072}) \stackrel{?}{=} M^{44}(0) = E(2^{2022})$$

$$M(u) = \exp(\frac{u^{2}z^{2}}{2}) = 11 + \frac{u^{2}z^{2}}{2} + \frac{1}{(u^{2}z^{2})^{2}} + \frac{1}{(u^{2}z$$