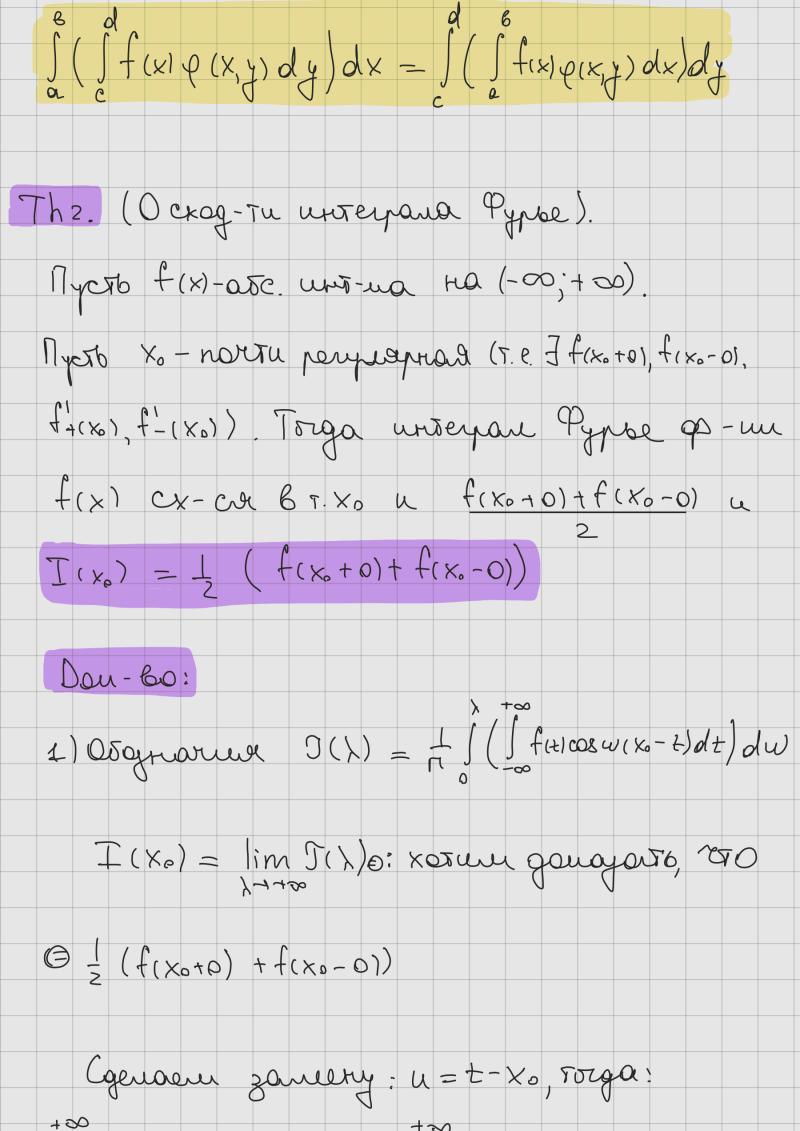
Onp. Mycto f(x) - outc. uni-ua Ha (-00; +00). Torga unieyan Pyrse 270:  $T(x) = \int_{0}^{\infty} (a(w)\cos wx + b(w)\sin wx)dw, rge$  $\alpha(w) = \iint_{\Pi} f(t) \cos wt \, dt$  $\beta(w) = \frac{1}{\pi} \int_{-\infty}^{+\infty} f(t) \sin w t dt$ Sinwt+ Sin 2wt + 4 Sin 3wt ->  $\frac{1}{2} \cdot \mathbf{I}(x) = \frac{1}{10} \left( \int_{-\infty}^{+\infty} f(t) \cos w(x-t) dt \right) dw$ Th. 1. Pyeto f(x) -atc. untra na na nevernan um Decuprorman (a, B), a P(x, y) - Heng. u oy. Ha (a, b) x [c, d]. Torga



$$\int f(t) \cos w(x_0 - t) dt = \int f(u+x_0) \cos wu du =$$

$$= \int f(x_0+u) \cos wu du + \int f(x_0+u) \cos wu du =$$

$$= \int (f(x_0+u) + f(x_0-u)) \cos wu du$$

$$= \int f(x_0+u) + f(x_0-u) + f(x_0-u) \cos wu du du$$

$$= \int f(x_0+u) + f(x_0-u) + f(x_0-u) \cos wu du du du$$

$$= \int f(x_0+u) + \int f(x_0+u) + f(x_0-u) +$$

+ 1 5 (f(x0-u) - f(x0-0)) sin hu du Paccuation Ji: Or \_= 0 no Lem. Punaria 05 ocy., T.u.  $\frac{1}{2}f_{+}^{1}(x_{0}) = \lim_{u \to 0+0} \frac{f(x_{0}+u) - f(x_{0}+0)}{u} =>$ => f(x0+u)-f(x0+0)-oy. 5-oy. 5-oy. Tu 7.0 => => rpagetaleur Ji B Buge:

-> rpagetaleur Ji B Buge:

-> regetaleur Ji B Buge:

-> regetaleur Ji B Buge:

-> asc. uro-ma

-- a o (no Lem. Pumaria) gratur béé avc. f(x, tu)-f(x0 t0) - asc. uni-=> J => To (no Lem
) Dumano
os ocq.)