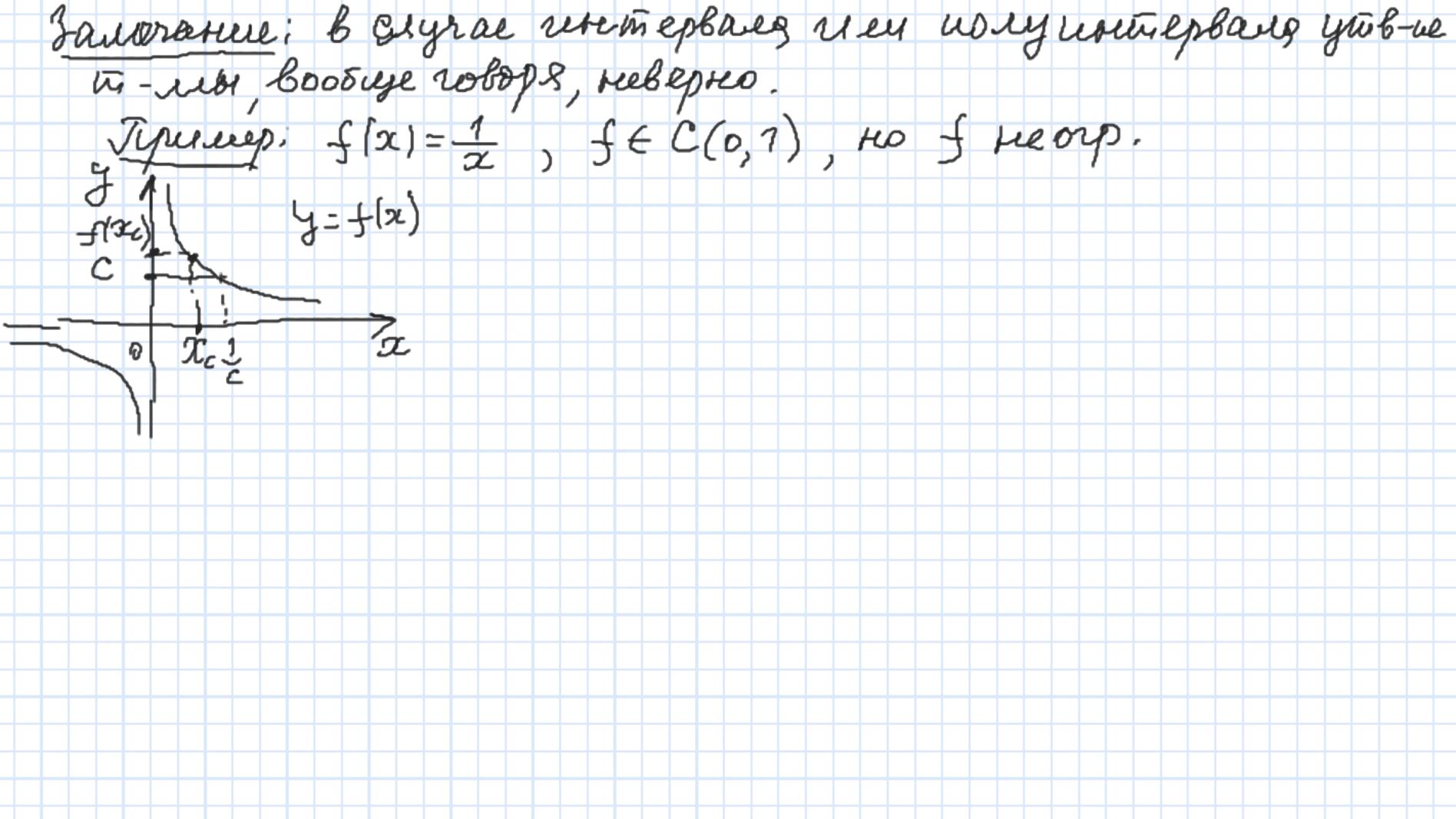
Teoperer 2 (rupbour ti-rus Bei epresti pacco oб ограненте ниосате funger. на отрезне ф-ии). f ∈ C [0,6] => f orp. Box-bo; H. gor-ins, rius I m, le R; m & f(x) & ll + x & [a, &].
Tyreguo worther, rius f ne orp. clepxy, a, e. + C & R] $x_c \in [a, 6]$: $f(x_c) > C$. $Torgg + n \in \mathbb{N} \exists x_n \in [a, 6]: f(x_n) > n$. $\{x_n\}_{n=1}^{\infty}: a \in x_n \in 6 \forall n \geqslant 1 \Rightarrow \exists \{x_n\}_{k=1}^{\infty}: x_n \Rightarrow \xi$. $a \in \mathcal{X}_{n_k} \leq 6 \times k$, $1 \Rightarrow \xi \in [a, 6]$, $f \in C[a, 6] \Rightarrow f \in C(\S) \Rightarrow lunf(x_{n_k}) = f(\S)(*)$ $f(x_{n_k}) > n_k + k \ge 1 \Rightarrow \lim_{k \to \infty} f(x_{n_k}) = +\infty - f \Rightarrow forp. cl.$ I HALLO WITTED GOR-CLP, WILL of orp. CH.



oup: MER (mER)-morreaux besxus (mozerula) rparec q-leu f(x) Ha lett-be A, lever! 1) $f(x) \leq dl$ (f(x) > m) $f(x \in A)$ 2) $\forall \mathcal{E} > D \supset \mathcal{X}_{\mathcal{E}} \in A$: $f(x_{\mathcal{E}}) > \mathcal{M} - \mathcal{E}$ ($f(x_{\mathcal{E}}) < m + \mathcal{E}$). P-lei Choux mortion patelli). Tijent f∈C[0,8]. Torgg 0 Ha goethwrollin HG [GB] cBoux thorteon Bepx Hen u thorsain Herry Hen sparrein, in. e 3 3', 2" € [a,6]: $f(\xi') = \inf f(x)$, $f(\xi'') = \sup f(x)$, $\chi \in [a, 6]$ $\mathcal{B}_{0}\kappa$ - \mathcal{B}_{0} ; $f\in\mathcal{L}(a,c)\Rightarrow \kappa_{0}\kappa$. 2 $forp.\Rightarrow \exists \mathcal{M}=\sup_{x\in\{a,c\}}f(x)$, m = 1uf f(x), $M, m \in \mathbb{R}$, $X \in [3'] = M, f(3') = m$, $X \in [3]$

nge 3/3" + [9,6?, $fx \in [0,6]$ $m \in f(x) \in M$. Donyciñua, ruo ≠ 5' € [a,e]: f(5')=11 => =) $\forall x \in [a,6]$ f(x) < M. Parcuer-u $g(x) = \frac{1}{M-f(x)}$ g & C[0,6] => g-orp, => => => A>0: g(x) < A +x & [a,6] $(=) \forall x \in [a, 6] \quad \frac{1}{\omega - f(x)} \leq A \iff \omega - f(x) \geqslant \frac{1}{A} \quad \forall x \in [a, 6]$ $\langle \pm \rangle + \int (x) \leq M - \frac{1}{A} + \alpha \in [a, 6]$ 11= Supf(x); \ \(\ta \in [c, 6] \) f(x) < 11;] A>0: 1 => 3 & E [a, 6]; f(g')= M. S(x) = 11- 1 + x ∈ (0763 -