(48) Knumenuis levenykevenny l'mepeuvax replois rpoughis. megnenia Tyomo $f(x) \in C_{[q,6]} \exists f(x) \forall x \in [a,6] merga$ 1) $f(x) \cup ma [a,6] \Leftrightarrow f'(x) \land ma [a,6]$ 2) $f(x) \land ma [a, b] \Leftrightarrow f(x) \lor ma [a, b]$ D-bo! (I) Heodxoguencery a x1 x1 x2 x2 b a = x1 < x1 < x2 < x2 = 6 Paceur. gruo ynob. Rosques ob $Y_{x_1}(x_1) = Y_{x_1}(x_1) \left[m. k 41 \right]$ $Y_{k_1}(x_1) = Y_{k_1'}(x_1) \le Y_{k_1'}(x_2') = Y_{k_2'}(x_1) \le Y_{k_2'}(x_2) = Y_{k_2}(x_2')$ Tyems $x_1 \to x_1 + 0$ $x_2 \to x_2 \to 0$ Yx1(x1) = Yx2(x2), $\frac{Y_{x}(x_{1})}{Y_{x}(x_{1})} = \underbrace{\frac{f(x_{1}) - f(x_{1})}{X_{1}' - x_{1}}}_{4'(x_{1})} + \underbrace{\frac{f(x_{2}) - f(x_{2})}{X_{2}' - x_{2}}}_{4'(x_{2})} + \underbrace{\frac{f(x_{2}) - f(x_{2})}{X_{2}' - x_{2}}}_{4'(x_{2})}$ 1'(x1) = 1'(x) => 1'(x) 1 ma [a,6] a) Anno. Deemamornoems. Ryoms I'(x) 1 [9,6]. Donanceu, umo f(x) v [9;6] $\frac{1}{x^{2}-x_{1}} = \frac{1}{x^{2}-x_{1}} = \frac{1}$ =>m.k c=d, mo 1(c) = f(d) => KAC => f(x) ~ [a, b]

2) D-as an- no.