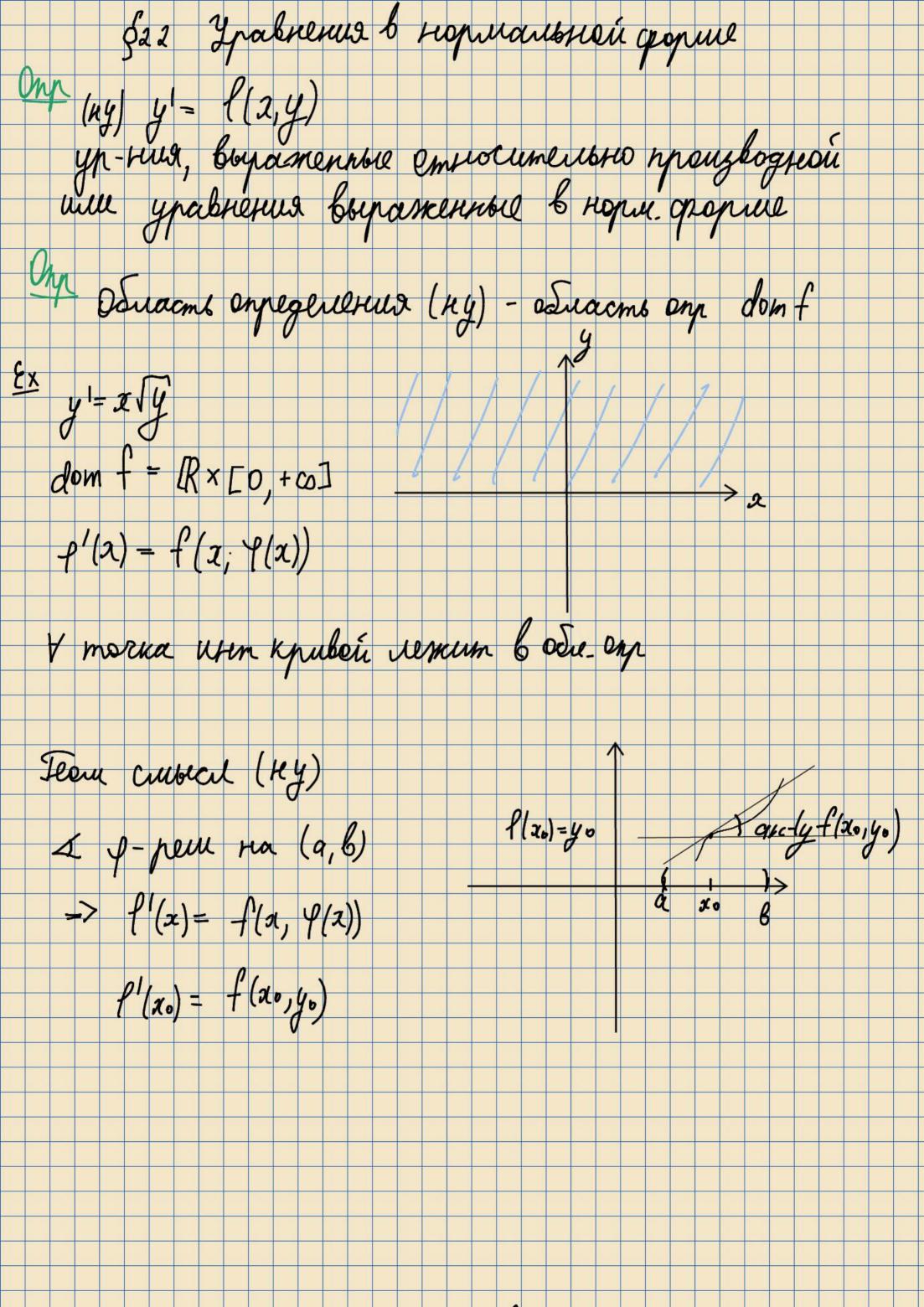
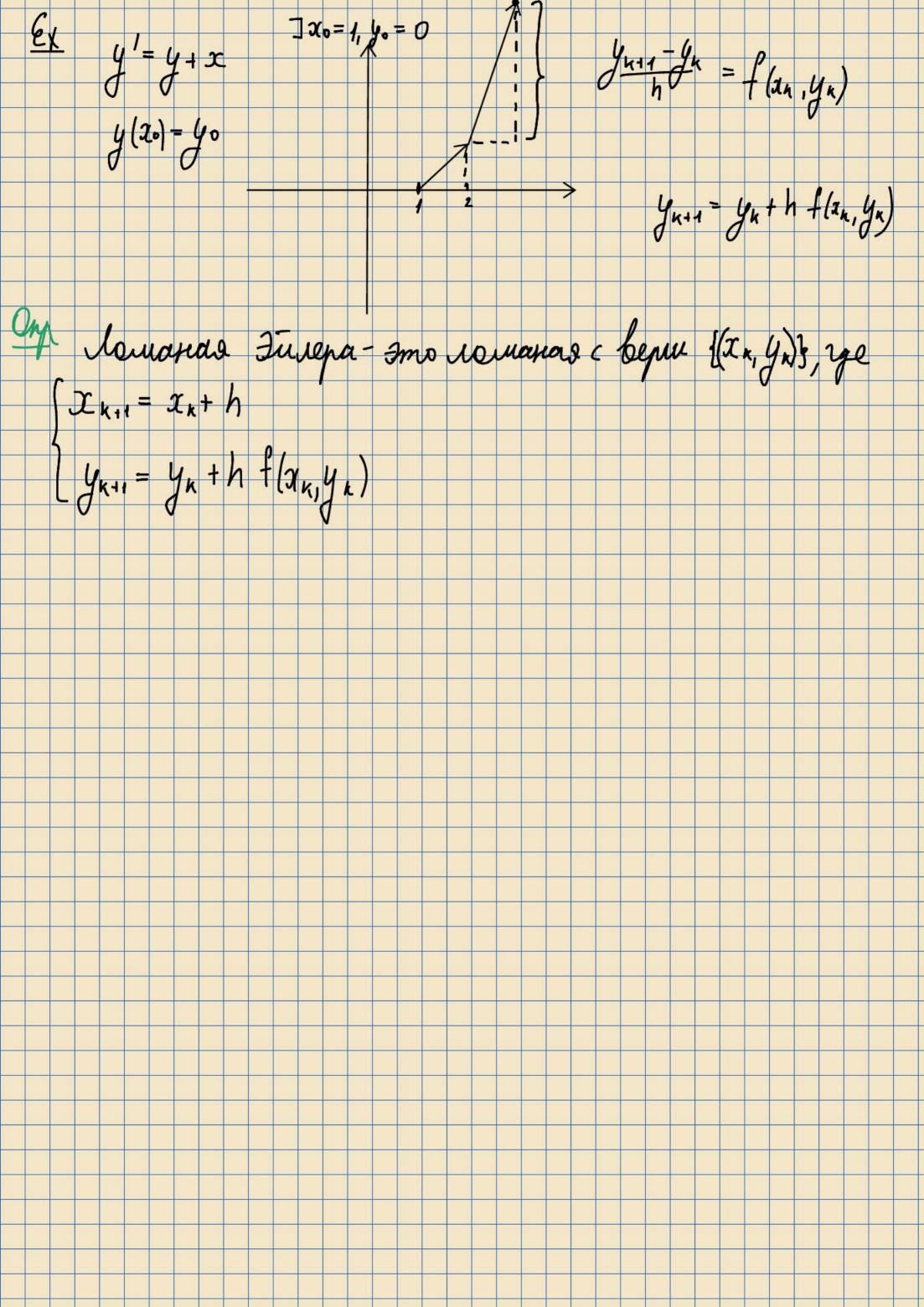
mrbabushkin @ itmo.ry They conabuse y (+) = ekt 6 grabnemere kent = Kent Joganabera 4(1)=Cekt Ckent - Chent

\$ 2.1 D/4 1-20 noprigue u ero penienul On Osukusberguse g/y 1-20 nopsigna  $(gy_1) F(x, y, y') = 0$ (gy1) na (a,6), ecul

1) P & C'(a,6) 2) F(x, f(x), f'(a))=0 On wemandelbrias upubas (gy!) - smo gragius ero pewerus On Doyce peruence (gy1) - mo un-bo beex ero permenuir Production annoyan (gy1) - 9mo grabnesse buga P(x,y,C)=0, annegenatoryel recompose persetus (gy1) non sex. znar. C Ex y = 0 (y' = f(x)) Odyse pewerus  $y = \frac{x^2}{2} + C$ ,  $x \in \mathbb{R}$   $||f(x)|| = \frac{x}{2} + C$   $(x \in \mathbb{R})$  $\{f: \langle a, b \rangle \rightarrow \mathbb{R}\}$  ce  $\langle b, a, b \in \mathbb{R}\}$   $f(x) = \frac{x}{x} + C$ ,  $C \in \mathbb{R}$ By anti-version number comp  $y = \frac{x^2}{x} + C$ ,  $C \in \mathbb{R}$ ,  $x \in \mathbb{R}$ 





\$ 2.3 Ynakrosius 6 guggepercyuarias (yg) P (z,y) dx + Q(z,y) dy = 0 - ypakresure b gugggersemanax NB yn-ma P(x,y) y= Q(x,y)  $u x_{y} = P(x,y)$  chodanca k(yy) y = P(x,y) zanucams prouze kak omnou yuqqq 9-us y= l(x)-pen (yy) na (a, b), love 1) pe c'(a,6) 2) P (2, P(2)) da + Q (a, P(2)) P'(2) chx = 0 Androwrie onjegendemas pemenus buga x= P(4) On OSudans any yn-us (yg) - mo we-bo dom P ndom Q xdn+

noganablik 6 yn-ue  $\frac{x dx + \sqrt{1-x^2} \frac{-2x}{2\sqrt{1-x^2}} dx = 0}{0=0}$ 4= 4  $= \frac{\partial y}{\partial x} = \frac{\partial y}{\partial x} = \frac{\partial y}{\partial y} = \frac{\partial y}{\partial y} + \frac{\partial y}{\partial x} = 0$ (1) P(a) dx + O(y)dy - yn-ve c pasgenerusum nepemetrus OSujui unmerpar yp-ua (1) uneen bug Pada+ Jaly)dy = C  $\frac{ex}{xdx} + ydy = 0$ Jxdx + Jydy = C 2 4 L 2 + L = C 20+42=C 21+42=R2(R=20)