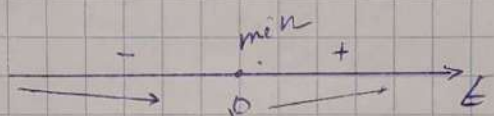
№23

$x = e^t - t$

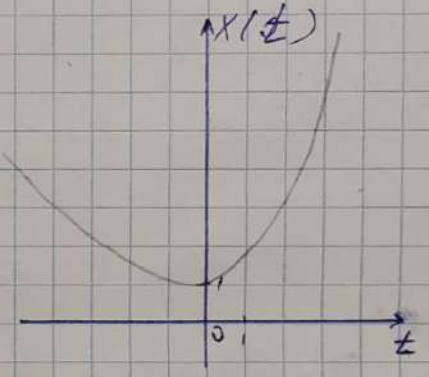
$x' = e^t - 1$

$e^t - 1 = 0$

$t = 0$



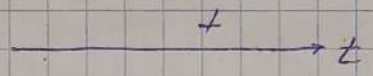
$f(0) = 1$ - наименьшее



$x'' = e^t$

$e^t = 0$

$\varnothing$



$y = e^{2t} - 2t$

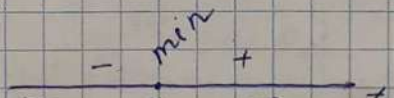
$y' = 2e^{2t} - 2$

$2e^{2t} - 2 = 0$

$e^t - 1 = 0$

$e^t = 1$

$t = 0$

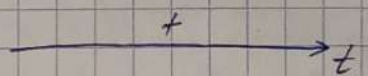


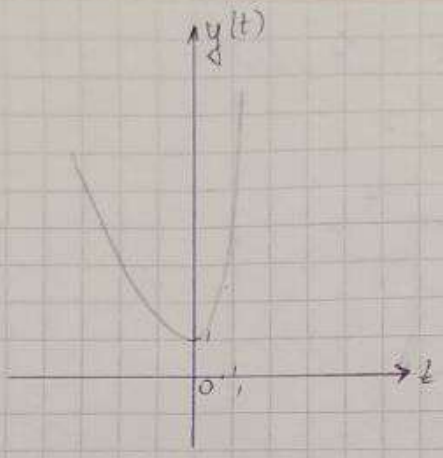
$f(0) = 1$ - наименьшее

$y'' = 4e^t$;

$4e^t = 0$

$\varnothing$





t	$(-\infty;0)$	0	$(0;+\infty)$
x	↘	1	↗
y	↘	1	↗

$$k = \lim_{t\to\infty} \frac{e^{2t}-2t}{et-t} = +\infty$$

$$k = \lim_{t\to-\infty} \frac{e^{2t}-2t}{et-t} = 2$$

$$b = \lim_{t\to-\infty} (e^{2t}-2t-2e^{t}+2t) = 0$$

$y = 2x$ - наклонная