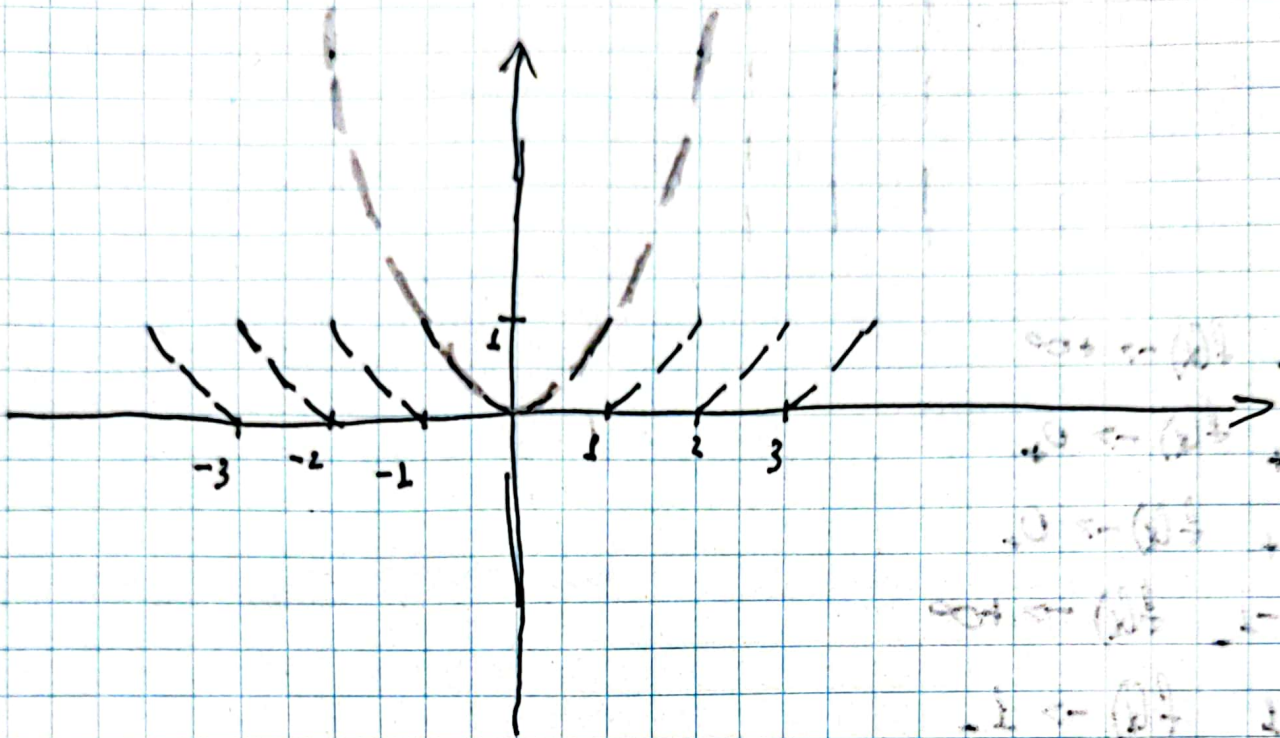


D/3

2.13 $f(x) = \{x^2\}$ (график) $\rightarrow y = \cos(x)$



$x=0$ $y=0$

$x=0,1$ $y = \{0,01\} = 0,01$

$x=0,2$ $y = \{0,04\} = 0,04$

$x=1,1$ $y = \{1,21\} = 0,21$

$x=1,2$ $y = \{1,44\} = 0,44$

$x=1,9$ $y = \{3,61\} = 0,61$

$x=2,1$ $y = \{4,41\} = 0,41$

Ограничено \rightarrow

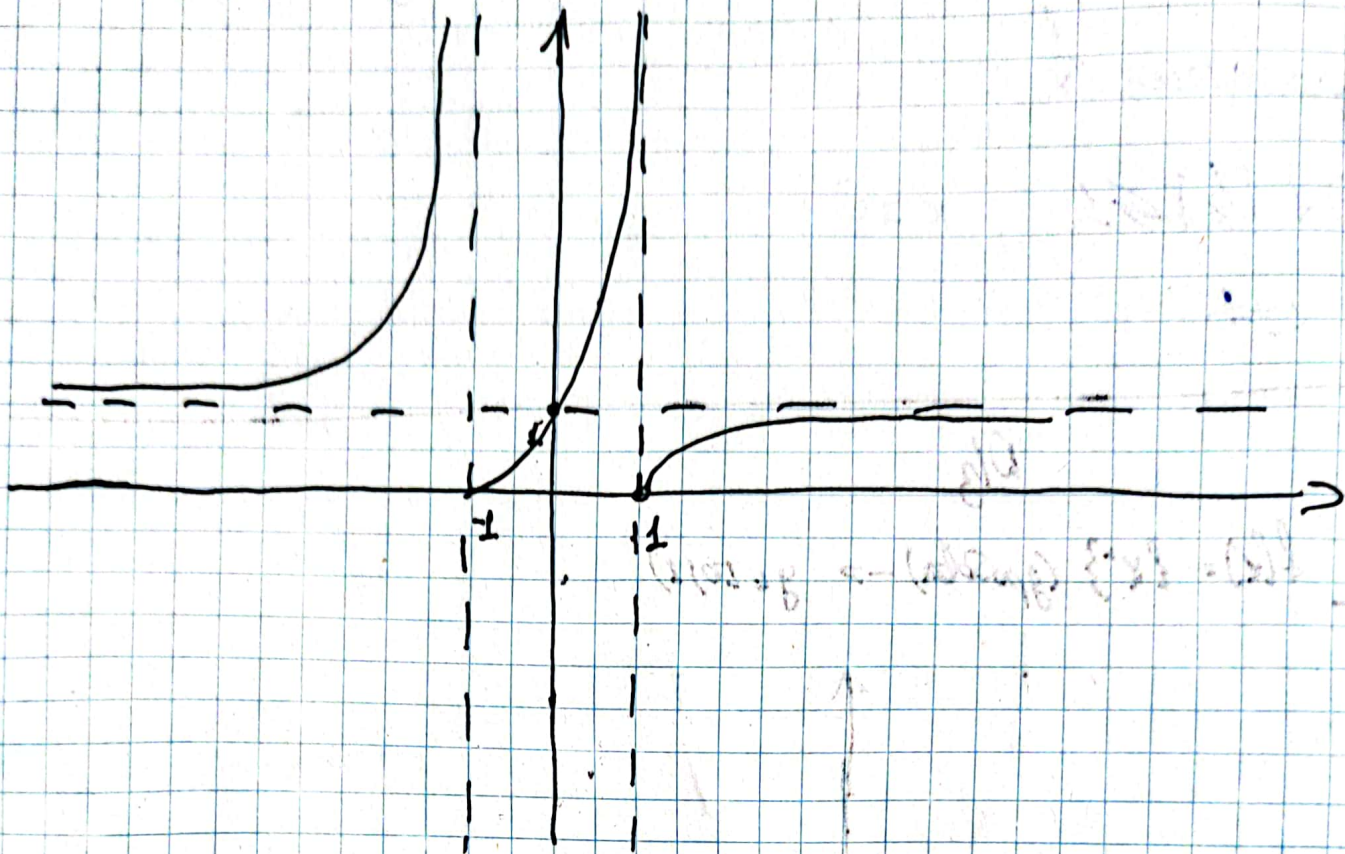
$x = -0,1$ $y = \{0,01\} = 0,01$

...

224 $f(x) = e^{\frac{2x}{1-x^2}}$

$x \neq 1$ $x \neq -1$

$f(x) \geq 0$



bpn $x = 1_-$ $f(x) \rightarrow +\infty$

bpn $x = -1_+$ $f(x) \rightarrow 0_+$

bpn $x = 1_+$ $f(x) \rightarrow 0_+$

bpn $x = -1_-$ $f(x) \rightarrow +\infty$

bpn $x > 1$ $f(x) \rightarrow 1_-$

bpn $x < -1$ $f(x) \rightarrow 1_+$

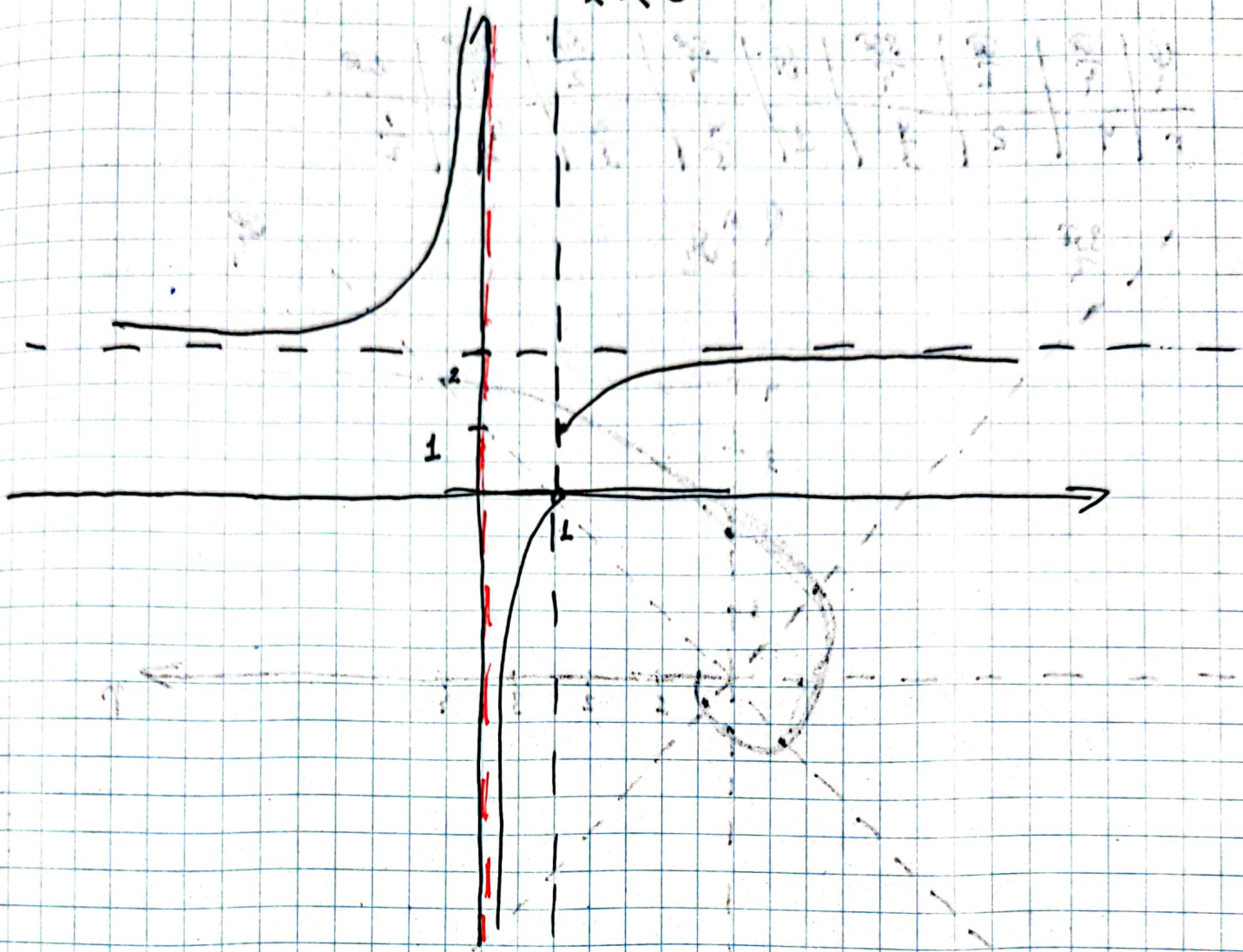
bpn $x = 0$ $f(x) = e^0 = 1$

bpn $x \rightarrow \infty$ $f(x) \rightarrow 1$

bpn $x \rightarrow -\infty$ $f(x) \rightarrow 1$

226 $f(x) = \frac{1}{1-2^{\frac{1}{x}}}$

$x \neq 1$
 $x \neq 0$



npn $x \rightarrow 0^-$ $f(x) \rightarrow -\infty$

npn $x \rightarrow 1^-$ $f(x) \rightarrow 2$

npn $x \rightarrow 0^+$ $f(x) \rightarrow +\infty$

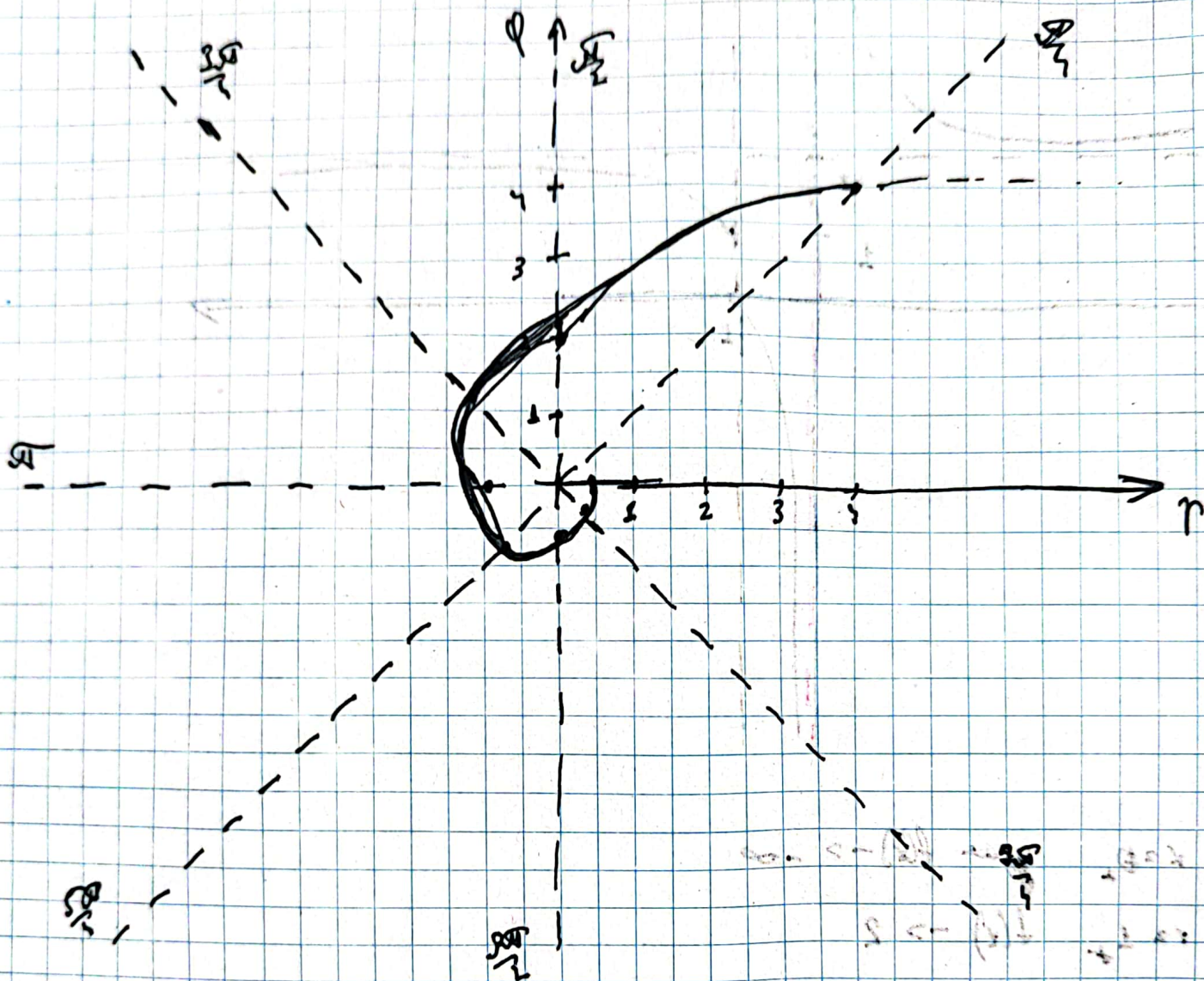
npn $x \rightarrow 1^+$ $f(x) \rightarrow 0$

npn $x \rightarrow -\infty$ $f(x) \rightarrow 2$

npn $x \rightarrow +\infty$ $f(x) \rightarrow 2$

2.29 $r = \frac{9}{\phi}$

ϕ	$\frac{\pi}{4}$	$\frac{\pi}{2}$	$\frac{3\pi}{4}$	π	$\frac{5\pi}{4}$	$\frac{3\pi}{2}$	$\frac{7\pi}{4}$	2π
r	4	2	$\frac{4}{3}$	1	$\frac{4}{3}$	$\frac{2}{3}$	$\frac{4}{3}$	$\frac{1}{2}$

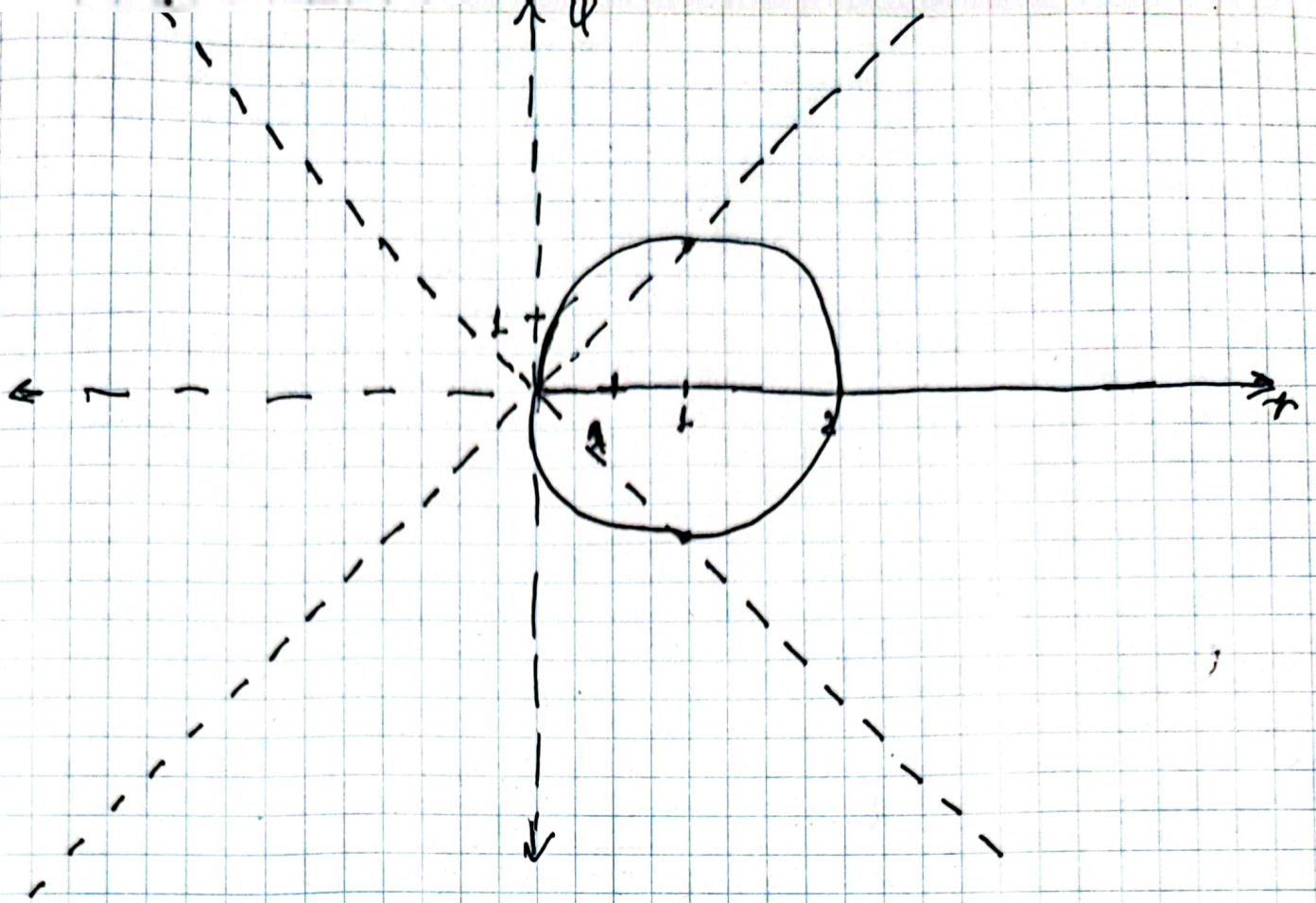


2.31 $r = 2a \cos \phi$, $a > 0$

ϕ	$\frac{\pi}{4}$	$\frac{\pi}{2}$	$\frac{3\pi}{4}$	π	$\frac{5\pi}{4}$	$\frac{3\pi}{2}$	$\frac{7\pi}{4}$	2π
r	$a\sqrt{2}$	0	$-a\sqrt{2}$	$-2a$	$-a\sqrt{2}$	0	$a\sqrt{2}$	2

$a=1$

↓
Kono



2.33 $r = \tan \phi$

ϕ	0	$\frac{\pi}{4}$	$\frac{\pi}{2}$	$\frac{3\pi}{4}$	$\frac{\pi}{2}$	$\frac{3\pi}{4}$	$\frac{\pi}{4}$	0
r	0	1	-1	0	-1	1	-1	0

