leorama du Fermat

y = f(x) _> f'(x) =0 P+1 stor $\xi' = \xi'(x)$

mum max pto flesso

f(x) december $(x_0+h) - f(x_0+h) - f(x_0$

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No max - > 1/1x)=0 ?

potes fix) definition [a,b] f(x) dermabile (Q,b)

No E (a,b) No pto max, mun

(f'(No) = 0

(o Nom é condizione mecessaria sufficiente, é solo necessaria

Se hai un punto di massimo ed è derivabile, la derivata=0

IP No ē pto maymmo f(x) = f(x) = f(x)

 $\frac{1}{6-h} = \frac{1}{100} + \frac{1$

NR h>0 \(\frac{4(\chi_0+h)-f(\chi_0)}{2}\)

la sterra quantità pruma del valou è positivo, dopo evitopem evelov en

1 h=0 f(No+h)+f(No) >0

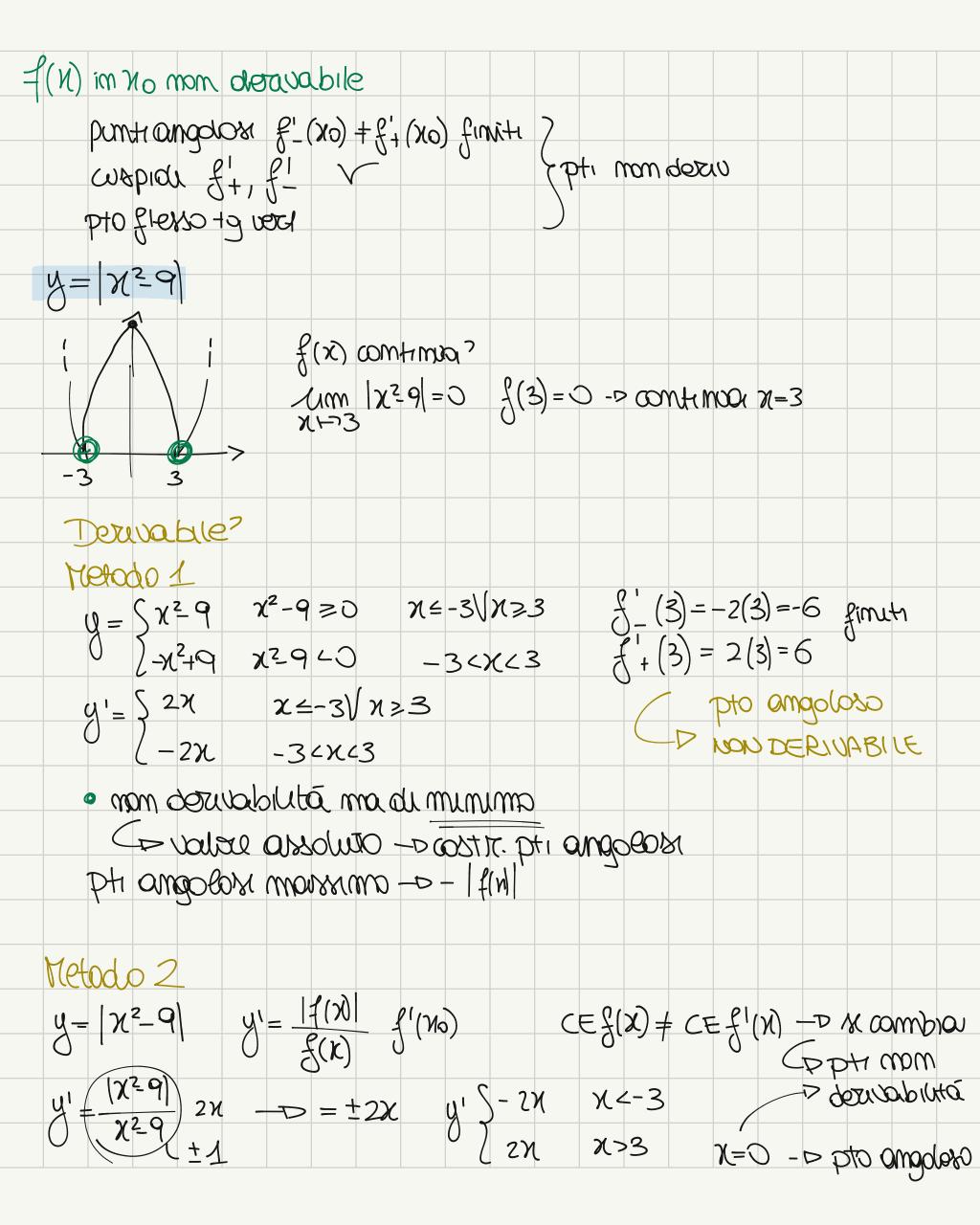
Cosa succede mel punto?

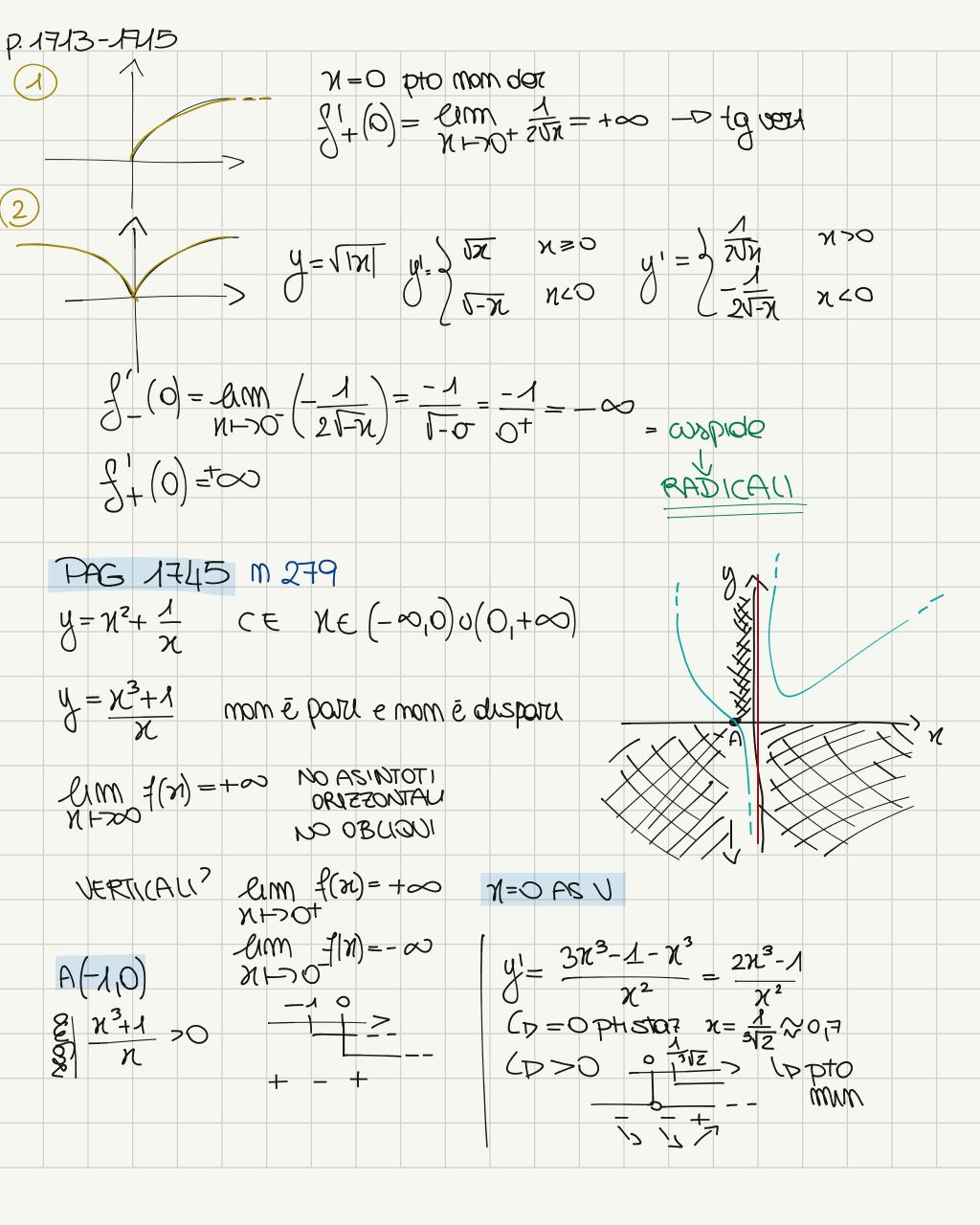
 $\chi = \chi_0^7$

 $0 \le (oK)^{2} = \frac{(oK)^{2} - (h + oK)^{2}}{h} = 0$

h > 0 $lim_{h \rightarrow 0} = f(N_0 + h) - f(N_0) = f'(N_0) \le 0$

f(N) derivabile in $x_0 - D f'(x_0) = D - D f'(x_0) = D$





$\lambda = \frac{2\chi^{3} - 1}{\chi^{2}}$	$y''=0 \chi^3 + 1 = 0 \chi = -1$
$ \lambda = \frac{6\pi^4 - 2\pi(2\pi^3 - 1)}{6\pi^4 - 2\pi(2\pi^3 - 1)} = \frac{6\pi^4 - 2\pi(2\pi^3 - 1)}{6\pi^4 - 2\pi(2\pi^3 - 1)} = \frac{2\pi^3}{6\pi^4 - 2\pi^4 - 2\pi^4} = \frac{2\pi^3}{6\pi^4 - 2\pi^4} = \frac{2\pi^4}{6\pi^4 - 2\pi^4} = \frac{2\pi^4}{6\pi^4} = \frac{2\pi^4}{6\pi^4} = \frac{2\pi^4}{6\pi^4} = \frac{2\pi^4}{6\pi^4} = \frac{2\pi^4}{6\pi^4} = $	+2 11 >0 -10 >
$\frac{1}{3} = \frac{2\chi^{3} - 1}{\chi^{2}}$ $\frac{1}{3} = \frac{2\chi^{3} - 1}{\chi^{4}} = \frac{6\chi^{6} - 4\chi^{4} + 2\chi}{\chi^{6}} = \frac{2\chi^{3}}{\chi^{6}}$	+ + +
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	211-2 10 Uzmm Natchbe Pimz
$y = \frac{2\chi^2 - \chi + 2}{\chi^2 + 1}$ simmetrica	2y=2 No up mon southbe funz $2x=0$ up \bar{e} pooru? $2x=2$ up $\frac{1}{\bar{e}}$ H pto mudio
$\chi_{\chi}^{2} = \frac{\chi^{1} + \chi_{1}}{2}$	2 2 - 2 11 - PI 11 - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
$\mathcal{D}(\mathcal{A}, \mathcal{A}) = \mathcal{Z}$	The plotting of the property o
$P(\chi, y) \qquad S \chi' = -\chi + \mu$ $P'(\chi', y') \qquad Z y' = \mu$	
7 (7(1,91) 2 9 =	
44000017010101017	
simmetrial $A(0,2)$	
A deve essera punto mudio $\frac{\chi + \chi'}{2}$	= Ο (χ'=-χ
A deve exsert punto muduo $\frac{1}{2}$	
2	$=2 \qquad y'=-y+y $
y = -x' es mellos furmons $y = -y' + 4$	(N) Orace (N)
∠ y=-y+4	SIMMETRICA WY 4 (1-2)/2 71-2
	$y = \frac{4 + 4 - 2 x^2 - x - 2}{x^4 + 4}$
$-y'+u = \frac{2(-n')^2 - (-n') + 2}{(-n')^2} + 1$	$-u' = \frac{2\chi^2 + \chi + 2}{\chi^2 + 4} - 4 = 2\chi^2 - \chi + 2$
metodo 2	$-0' = \frac{2N^2 - \chi + 2}{\chi^2 + 1} = \frac{2N^2 - \chi + 2}{\chi^2 + 1}$
Transprome - Douts A Mill'oriant	$e > \chi' = \chi$
Transatione - porto A sull'origin S N = X' calcolo le	24 = 4-2
$\begin{cases} y = y' + 2 & \text{colcolo le} \\ y = y' + 2 & \text{colcolo more vective} \end{cases}$	$y+2=\frac{2n^2-x+7}{x^2+1}$
	X24.1
$y = \frac{-112 - 2 + 21^2 - 21^2}{n^2 + 1} = \frac{-11}{112 + 1} = \frac{1}{112 + 1} = \frac$	OUTU INTO