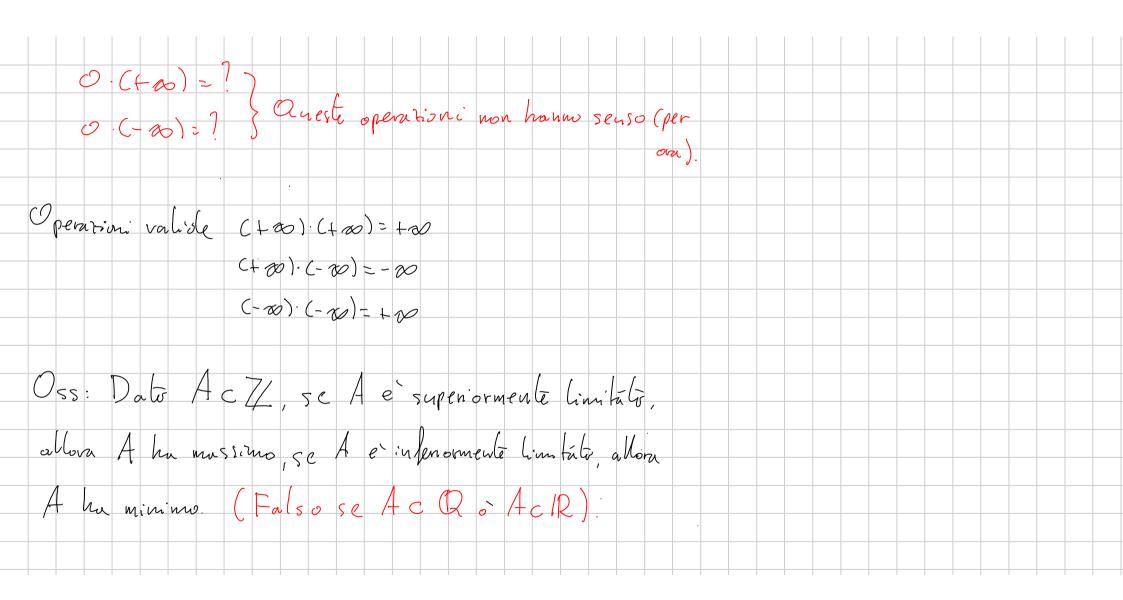
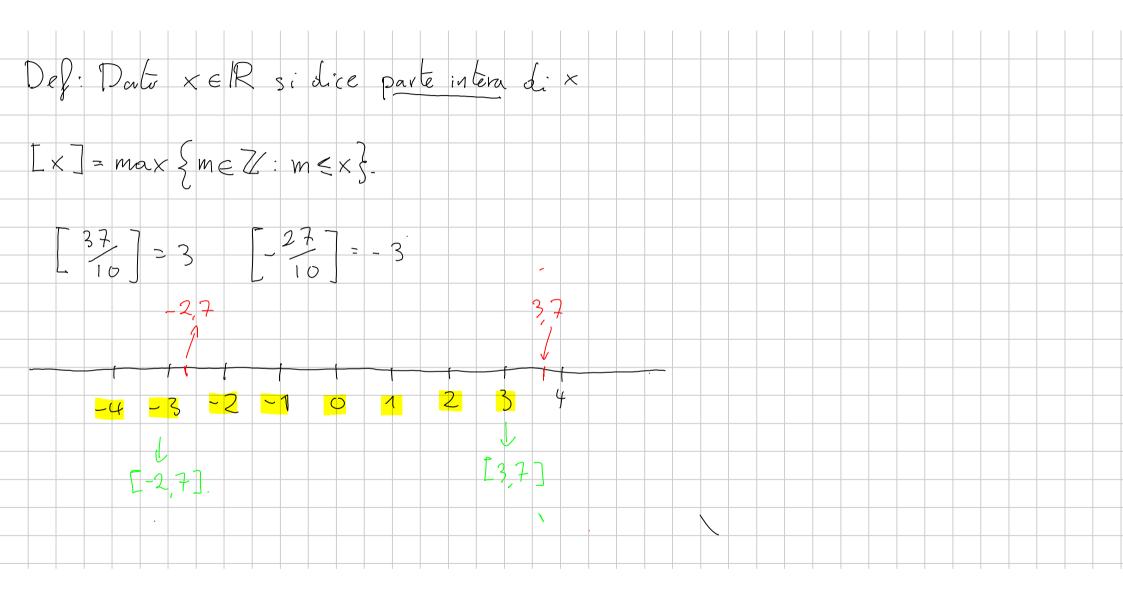
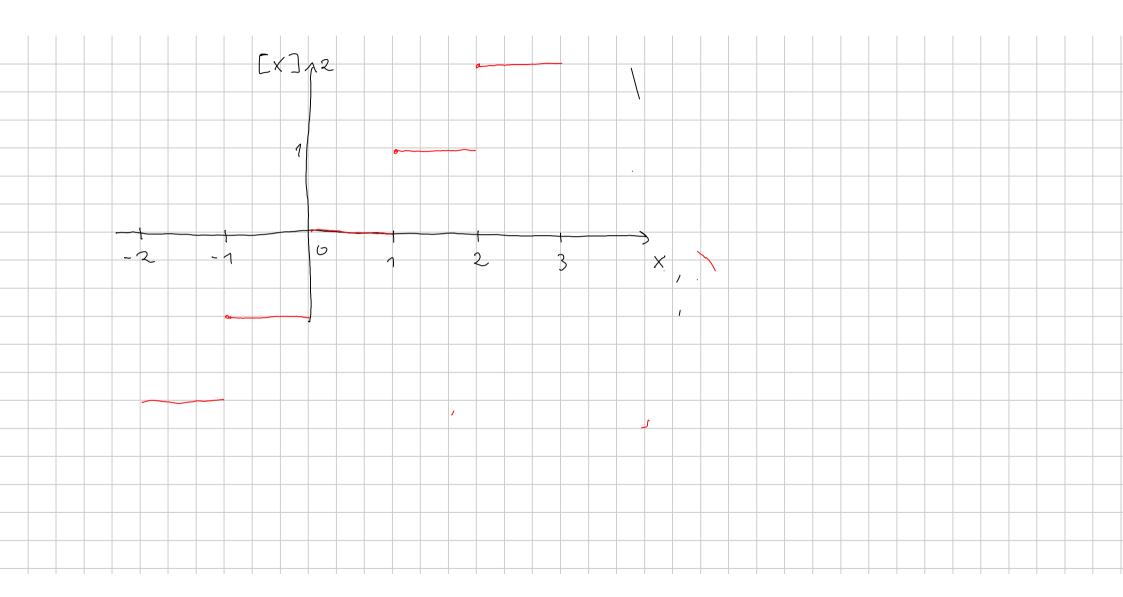
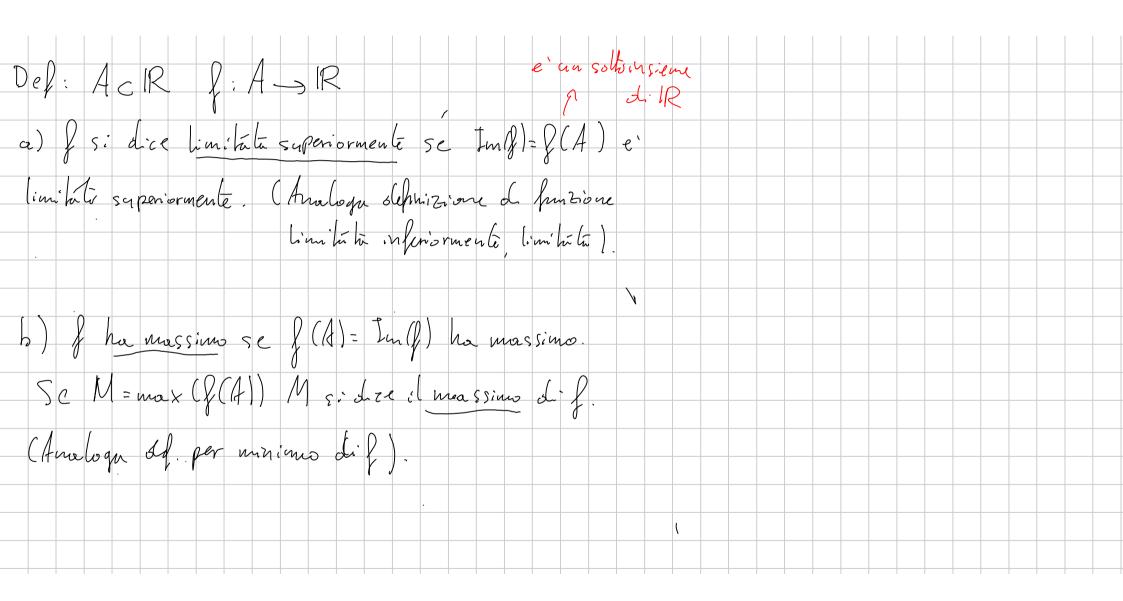
Lezione 26-09 Rettu reale estesa IR = IR U {-03 U {+0}} in modo che valga: - se < x < + so V x \in \bar{R} pertanti se xelk val - 00 < x < + 00 Oss: A e superiormente limitate es sup(A)<+00. Operationi con + 0:

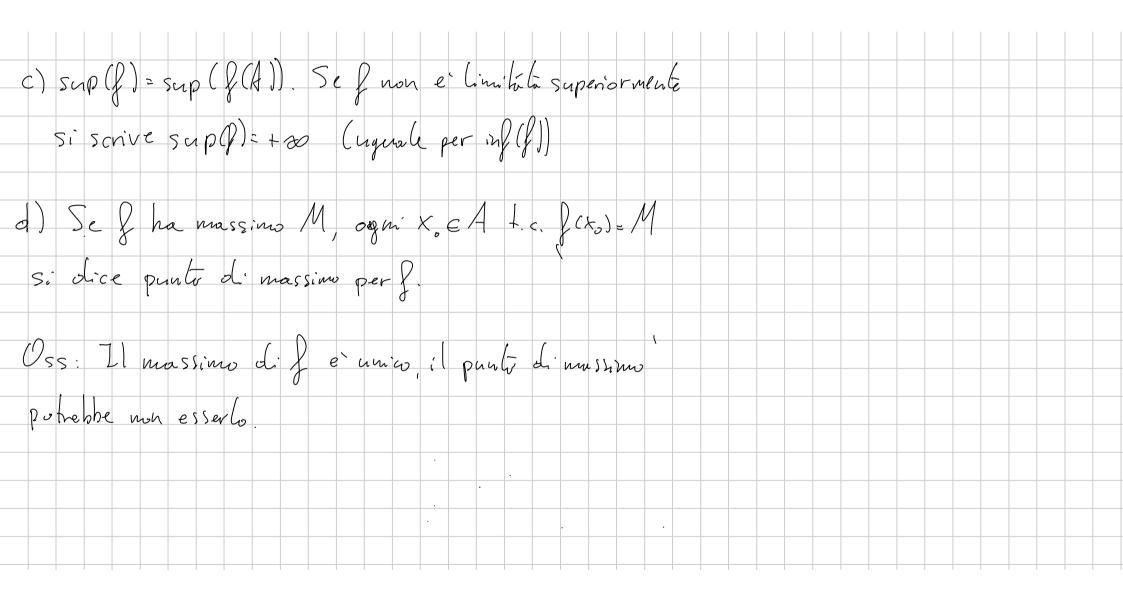
1) Se X + + 00 (x c R oppure x = -00)
$\times + (-\infty) = -\infty (-\infty + (-\infty) = -\infty)$
2) Se x + -00 allora x + (+10) = +00
Altenzione + 00 + (-00) non - definito.
3) Se x>0 allon x.(+0)=+0
$\chi \cdot (-\infty) = -\infty$
4) Se x < 0 allow x. (-00)=+00
X(+10)=-00



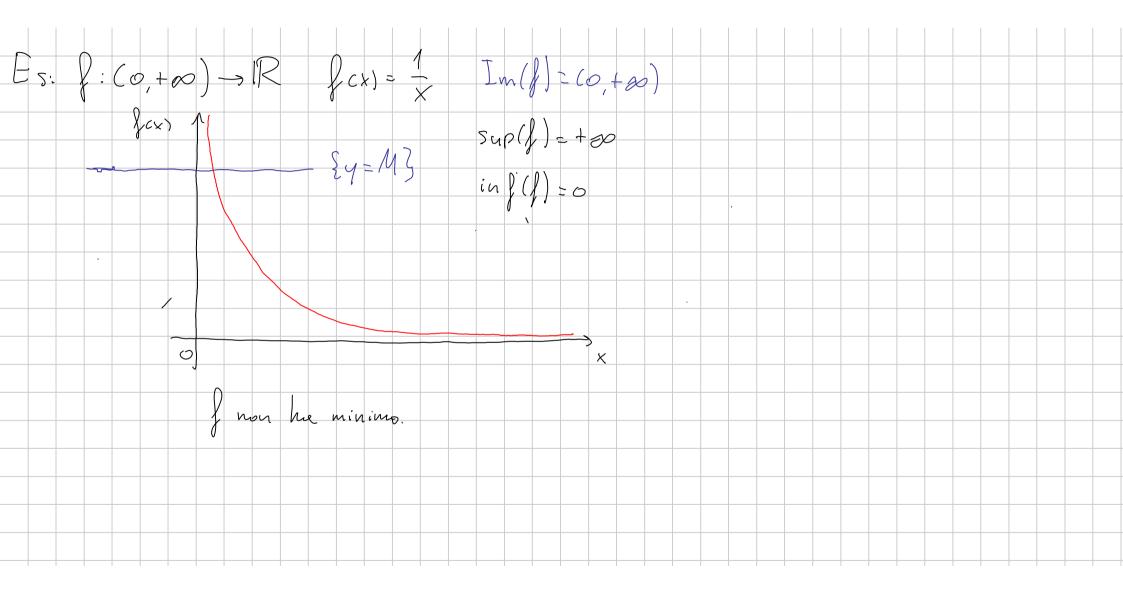


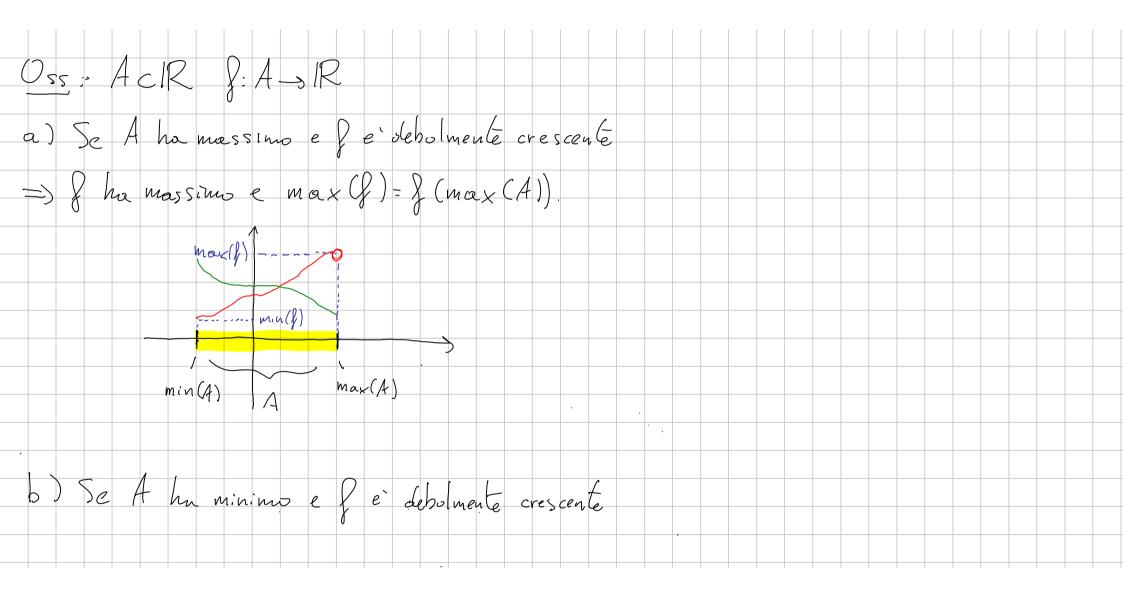




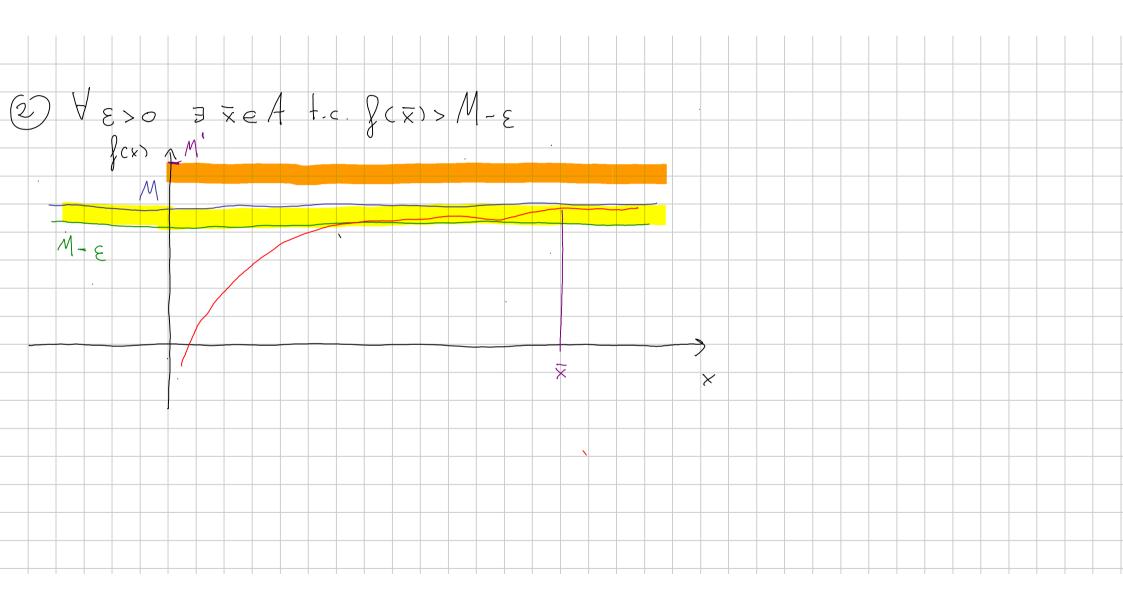


Esempio file oll for=	5:10 > 1/10 > 1/10 > 1	
	sive x max (y) = 1	
	min()) = -1	
	$m(r)(\gamma) = -1$	
	1 (0)	
	2m()) = [-1,1]	
	*	
July a massima	+2kt, ke 7/3 som infom'ti.	
	, i f	
Part d'uninimo: { - 1 + 2	kt kell	

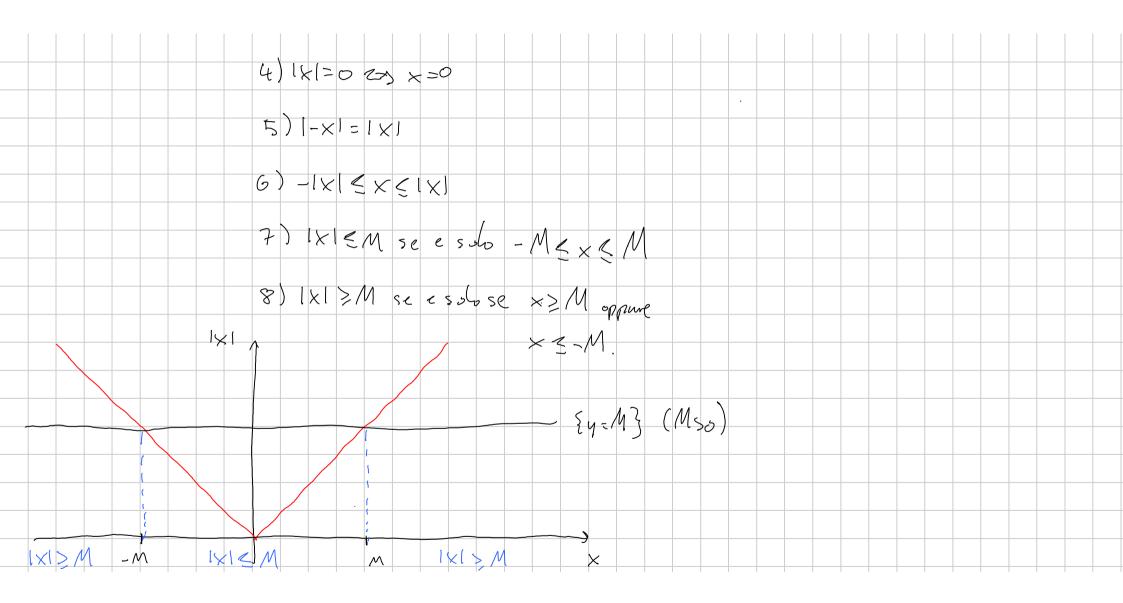




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C)	20	2	4	h	æ	m	e×	е	f	e	, د	Cel	sla	ren	Çe	Se	cre	SC6	en E	è,											
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Valore	assoluto
2000	assource
Del: Dat xell	5. A'ce volore assolute & X
1/1- may 5-x /3	
	(1x) = x se x > 0
$1 \times 1 = \max \left\{ - \times, \times \right\}$	-× se x < 0
101=0	Proprieta:
(T = H	X < IXI V X & IR
1-151=15	
2)	$ x =\times s \in x \geq 0$ $ x =-\times s \in x \leq 0$
	$ x = -x$ se $x \in 0$
3)	1x120 Vxell



$1\times12M \approx 5\times e(-\infty,-M) \cup ()$	$M, \leftarrow \infty$
Se Meo {1x1>M}=1R	IXIZM XXCIR
1×12M= \$	
Disuguaglianza triangolure:	
Dati a b e R, risulton che	Osservatione
	$ a+b+c \leq a+b + c $ $ \leq a + b + c $

Def: l'insieme di dépinitione di une funtione e'il più grande sottrinsieme di IR dore le operationi descrite in f hanne sense. Esempio: l'insieure de definitione de fors= Nx e to,+00) Es: f(x)=log x e'definition (0,+00) of CX) = log (X2) e definita in Rigoz of $(x) = 2 \cdot \log(x)$ e of, in $(0, +\infty)$ $\log (x^2) = 2 \cdot \log x \forall x > 0$

Se $\times e_0 \rightarrow -\times > 0$ $\log(x^2) = \log((-x)^2) = 2 \cdot \log(-x)$ Pertante log (x2) = 2. log (1x1) \ x 70 = log(ex)= x VxeR. oelogx=XXXX esin (arcsin X)
edd. sn [.11] sin: [-t +] > [-1,1] arcsin: [-1,1] > [-1 tr]

