Cynus-Back Clipping

$$t_{left} = \frac{-(x_0 - x_{min})}{(x_1 - x_0)}$$

$$tright = \frac{-(x_0 - x_{max})}{(x_4 - x_0)}$$

Hill you - min 2 min = -200, ymin = 2 max = 200 } ymax = 100 (-100,-100) to (200,0) 20 yo

 $D = (x_1 - x_0 > y_1 - y_0) = (300, 100)$ Thitially, $t_E = 0$, $t_L = 1$

- 1	-	•			- /	111		
	Boundary	N _i	Ni · D	t	-(-	PE/PL	EE .	LL
	Left	ハーワリノ	$(-1 \times 300) + (0 \times 100)$ = -300	_	33	PE	0	1
	Right	(1,0)	$(1\times300)+(0\times100)$ = 300	1	7	PL	mod ffe	L 1107
And the second s	Bottom	(0,-1)	$6 \times 300 + (-1 \times 100)$	0	114 	IIE 1	0 10	1
-	Тор	(0,1)	(0x300)+(1x100) = 10,0	2	iM	br br	among d	1
1			The second secon	-				

$$\frac{-(200-(-200))}{-(200-(-100))} = \frac{-100}{300}$$
tleft $\frac{-(200-(-100))}{-(200-(-100))} = \frac{-100}{300}$

$$tright = \frac{-(20-2max)}{(24-2co)} = \frac{-(-100-200)}{200+100} = \frac{1}{200+100}$$

the thorum =
$$\frac{-(y_0 - y_{min})}{(y_1 - y_0)} = \frac{-(-100 + 100)}{0 + 100} = 0$$

the p = $\frac{-(y_0 - y_{min})}{(y_1 - y_0)} = \frac{-(-100 + 100)}{0 + 100} = 2$
 $= (-100, -100) + (0, 0)$
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2b (i)
$$x_{min} = -200$$
, $y_{min} = -100$
 $x_{mox} = 200$, $y_{mox} = 100$
 $y_{mox} = 10$

(1) 10 11 - 11 (CO2) 1/1 (CO) - (CO)

call high

7 Dot product

_			7				
	Boundary	N;	Ni.D	1	PETPL	te b	tL
NAME OF TAXABLE PARTY.			-1.100 + 095 $= -100$		PE	0	1
a proposition of the last and t	Right	(1,0)	1.100 + 095 = 100	1.5	PL,	0	1
Committee and an incident and the second	Botlom	(0,-1)	= 100 0.100+(-195 = 95	_0.05	PLOS	15/0 _	-0.05
at Gibell to build a principle on confinementalists	Top	(0,1)	0.100+195	-2.16	PE 1.:		-0.02
Chief de la constitue de de de la constitue de	t _E >	t_ 0	> NULL (1	ine is	complete	ly ordaide	gia Ria
			September 1		167		

261)
$$x_{min} = -200$$
, $y_{min} = -100$
 $x_{max} = 200$, $y_{max} = 100$
 $(-160, 140)$ to $(-240, 80)$
 $x_{max} = 200$, $y_{max} = 100$

$$D = (24720, 41740) = (-240+160, 80-140) = (-80, -60)$$
Triffella to = 0, the 1

$$t_{left} = \frac{-(x_0 - x_{min})}{x_1 - x_0} = \frac{-(-160 + 200)}{-240 + 160} = 0.5$$

			ec. M.			
tright		(1-2co		40+160	_ = +4.	2 manung
t botton		(40-40)	in)(140+100) 80-140		tilgia
top =		10-4mas	<u> </u>	0-100)	0.67	LmoHc8
Boundary	N!	N: D	- E	PEIPL	世	141
Lest	(0<1-)	80	0.5	PL	0	0.5
Right	(1,0)	-80	-4.5	PE	0 1	0.5

6000

(0,1) -60

Bottom (0,-1)

Top

$$P(0.67) = (26, 40) + (20, 40) + (20, 60)$$

$$= (-160, 140) + (-53.6, -40.2)$$

$$= (-160, 140) + (-53.6, -40.2)$$
Here $t_{E} > t_{L} \rightarrow t_{R}$ line is completely outside.

0.67

400 B P2000

PE

Oim 0.5%

0.67

2b(v)
$$x_{min} = -200$$
, $y_{min} = 100$
 $x_{max} = 200$, $y_{max} = 200$

t-10-40-4 max	$= \frac{-(120-100)}{-110-120} = 0.08695652174$
(di-Ao)	-110-120 = 0.08693634149

	A STATE OF THE PARTY OF THE PAR	The second secon	THE RESIDENCE OF THE PARTY OF T		
\mathcal{N}_{i}	Ni.D	F	PE/PL	te	4L
			·	0.181818	1
(1,0)	550	0.3030303031	PL 10.00	0.181818	0.9090
(0,-1)	230	0.9565-217391	PL	0.181818	0.9090
(0,1)	-230	0.0869262124	PE	0.181818	0.000
	(-1,0) (1,0) (0,-1)	(-1,0) -550 (1,0) 550 (0,-1) 230	(1,0) -550 0.1818181818 (1,0) 550 0.200000000000000000000000000000000	(1,0) -550 0.1818181818 PE (1,0) 550 0.2000000001 PL (0,-1) 230 0.2565217391 PL	(1,0) -550 0.38181818 PE 0.181818 (1,0) 550 0.3030303031 PT 0.181818 (0'-1) 520 0.32625512331 bt 0.181818

$$P(0.18181818) = (-300,120) + \pm x(550,-230)$$

$$= (-300,120) + (100,-41.81818182)$$

$$= (-200,78.18181818)$$

$$P(0.9090909091) = (-300,120) + (550,-230)$$

$$= (-300,120) + (500,-209.0909091)$$

$$= (200,-89.09090909)$$

(-200, 78.18181818) and (200, -89.090909) are the true clip intersection.

$$200 \times_{min} = 0, \quad \forall_{min} = 0$$

$$\times_{max} = 300, \quad \forall_{max} = 200$$

$$(100,0) \text{ to } (400,100)$$

$$\Sigma_{0} = (x_{1}-x_{0}), \quad \forall_{1}-y_{0} = (400-100), \quad 100-0) = (300,100)$$

$$D = (x_{1}-x_{0}), \quad \forall_{1}-y_{0} = (400-100), \quad 100-0) = (300,100)$$

$$T_{0} = (x_{1}-x_{0}), \quad \forall_{1}-y_{0} = (100-0), \quad 100-0 = (300,100)$$

$$T_{0} = (x_{1}-x_{0}), \quad \forall_{1}-y_{0} = (100-0), \quad 100-0 = (300,100)$$

$$T_{0} = (x_{1}-x_{0}), \quad \forall_{1}-y_{0} = (100-300), \quad \forall_{1}=(300,100)$$

$$T_{0} = (x_{1}-x_{0}), \quad \forall_{1}=(300,100), \quad \forall_{1}=(300,100)$$

$$T_{0} = (x_{1}-x_{0}), \quad \forall_{1}=(300,100), \quad \forall_{1}=(300,100)$$

$$T_{0} = (x_{1}-x_{0}), \quad \forall_{1}=(300,100), \quad \forall_{1}$$

Boundary	N;	Ni.D	t	PE/PL	LE	tL
Left	(-1,0)	- 300	∞ − 0·3333	PE	0	1
Right	(1,0)	300	0.666664	PLIX	0	0.66664
Bottom	(1-20)	-100	ī - 0. 0 .j	PEB	0	0.66664
Top	(0,1)	100 0 - 001	2)- (sim	PL 0 =	0 1	0.66664

$$P(0) = (x_0, y_0) + 0 \times (300, 100)$$

$$= (100, 0) + (0, 0)$$

$$= (100, 0) + 0.66667 (300, 100)$$

$$= (100, 0) + (200, 66.66667)$$

$$= (300, 66.66667)$$

(100,0) and (300, 66.66667) are the true clip intersection.

$$2c(i) \times_{min} = 0$$

$$\times_{max} = 300, \quad y_{max} = 200$$

$$2(50, -5) \text{ to } (350, -100)$$

$$2(50, -100, -100)$$

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Topon ! . I'm = . you

(931 (01) of (040 (04)

						(a)\ a	
Boundary	N;	Ni.D	- 1- 20h.	PE/PL	tem	FL	
A	(-1,0)	-100	- 2.5	PE	0. 11	1	And the beautiful confidence of the second
Right	(1,0)	100	0.2	PL	Ø(3	0:5	
Bottom	(0,-1)	95	-0-052631	PL	0	- 0.052631	•
Top	(0,1)	-95	-2.15789	PE	0	-0.025631	
(250, -5) 2011 2 n	2631) and in.	= (244 (244 (244), 300)	7368,0) 7368,0) 7368,0) min = 0	52631) 5.2631	x (100,-	eletely ordside	
26 %		24	91				

D=
$$(x_1-x_0)$$
 y_1-y_0 = $(-40-40)$ $180-240$
= $(-40-40)$ = $(-40-20)$ = $(-40-40)$ = $(-40$

$$20(i) \times_{min} = 0, \quad \forall_{min} = 0$$

$$\times_{mox} = 300, \quad \forall_{mox} = 200$$

$$(-100, 220) \quad \text{to} \quad (450, -10)$$

$$\times_{0} \quad \forall_{0} \quad \forall_{1} \quad \forall_{0} = (450 + 100, -10 - 220) = (550, -230)$$

$$D = (x_{1} - x_{0}, \forall_{1} - \forall_{0}) = (450 + 100, -10 - 220) = (550, -230)$$

$$D = (x_{1} - x_{0}, \forall_{1} - \forall_{0}) = (450 + 100, -10 - 220) = (550, -230)$$

$$T_{nitially} \quad t_{E} = 0, \quad t_{1} = 1$$

$$t_{1} \quad t_{1} \quad t_{2} \quad t_{2} \quad t_{3} \quad t_{4} \quad t_{4}$$

Boundary	Ni	Ni.D	Ł	PE/PL	te	tL
Left	(-1,0)	-550	0.181	PE	0.181	1
Right	(1,0)	550	0.727	PL	0.181	0.444
Bottom	(0,-1)	સ્ટા	0.957	PL	0.181	0.727
Тор	(0,1)	-230	0.0869	PE	0.181	0.727

$$P(0.181) = (-100, 220) + 0.181 \times (550, -230)$$

$$= (-100, 220) + (-100, -41.63)$$

$$= (0, 178.37)$$

$$= (-100, 220) + 0.727 (550, -230)$$

$$P(0.727) = (-100, 220) + (400, -167.27.27273)$$

$$= (300, 52.727)$$

(0,178.37) and (300, 52.727) are the true clip interesis