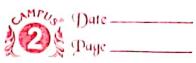


4	Bresenham's Line Derawing Algorithm?
5	
	This alengithm is used from scan Converting
41	This algorithm is used from scan converting a line. It is an esticient method because
	it involves only integers arithmetic These
	olerations can be performed very regidly es
	it involves only integers arithmatic These operations can be performed very rapidly so lines can be generated quickly.
1	The same of the sa
- 2,	Sloje of line is
	y=mn+c y=mn+
	At Mr. yr = mxx+c den
	xen, yen = Mxen +C
	When slope lies blu y
	OLM ZI
	OZ doldn ZI
	i. dy z dx
	d. = y - y = = y o m(xx+1) + C - y k
	d2 = ykn - y = ykoti - (m(ne+1) + C)
	$d_1-d_2 = m x_r + m + C - y_r - y_r - 1 + m x_r + m + C$
	$\frac{d_{1}-d_{2} = m x_{k} + m + C - y_{k} - y_{k} - 1 + m x_{k} + m + C}{= 2m(x_{k} + 1) - 2y_{k} + 2C - 1}$
	Decision Parameter
	Decision Parameter
	pr = 2 dy nr - 2 dryr + d
*1 *	where d = 2dy + dn (2c-1)
<u> </u>	If (pr. 20) then select lower fixel
	0. Nr1= Nrt 4 yr = 4"
	PRH = 2 cly (xxx1) - 2 clnyx + d
	= 2dy xx + 2dy - 2dnyr + d
	PRH = DK + 2d4
	Else Print 2dy



1	12 Kr = 12 K + 1 4 4 Kr = 4 6 11
	Nrn = Nrt) 4 yrn = yrd Drn = 2dy (nrt) - 2dn (yrn) + d = 2dy xr + 2dy - 2dnyr - 2dn + d Drn = pr + 2 (dy - dn)
	= 2 dy xr + 2 dy - 2 dnyr - 2 dn + d
	Drn = pr + 2 (dy-dn)
	1000
	Now, At steering step (no, y.) po = 2 dy no - 2 dny. + 2 dy + dn (2y 2 d) dn no1) = 2 dy no - 2 dny. + 2 dy + 2 dny 2 dy no dn po = 2 dy - dn
	Po = ady no - 2dny + 2dy + dn (2y - 2 d/dn no -1)
	b = 2 dyno - Johny + 2 dy + 2 dny - 2 dyno - dn
	p. = 2 dy - dn
-0.34	Algorithm &
	- Carlon Harris
?)	Influt and for a for a form
11)	Infut end foint of line A (no, yo) & B (no, yo) & B (no, yo)
	0 - 9 1 1
iii)	Initialize n= n & b
11)	Put Pixel (ny)
	while (nin)
	Initialize $n = x$, $l = y$. Put fixel (x, y) while $(x = x_1)$ if $(p = 0)$ then
	$P = P F \sim C Y$
	else
	p = p+2 (dy-dn)
	4 = 4+1
	end if
	n= n+1 Putfixel (n,y) end while
	Putfixel (n,y)
	end while
<u>(i v</u>	Exit.