

Unit intervals. Barrie 19 JK, YK-1. Next co ordinate may be, F (2K+1, YK) Or (2K+1, YK-1). La depends upon the Pasamater. abusion mid point =  $\left(\frac{2(x+1+x_{k+1})}{2}, \frac{y_{k}+y_{k}-1}{2}\right)$ = 2x+1, yx 1/2/ circle formula sex -smidponit apply circle 22+ y2 = x2 formula. In mid point apply circle formula, Pk=(2k+1)+(4k-1)2-22 PK+1 = (2K+1+1) + (4K+1 =) -82. PK+1-PK = (2K+1+1) + (YK+) -1 ) - 8 - (2Kx+1)2- (yx-1/2)2+x2

se movesin unit interval. So sext replace =((2ex+1)+1)2+(yx+1/2)2-(2ex+1)2-(4x/2) Ly keep Same , be cause Sise (a+b) Wheedler we Saver yet 10% = (2ex+1) + 2 (xx+1) + yx+12+1/4-Yx+1 - (2ex+1) - yx2 -/4+ 4x+1 = PK+1-PK = & (2K+1)+ YK+1 - YK)-(JK+1 - JK)+1.1+1 (0> 39) }!  $P_{K+1} = P_{K} + 2(2k+1) + (y_{K+1}^{2} - y_{K}^{2}) -$ 00 cm (4x+10-7x)+1. 00 100000 Initial Devision pasameter, (O, r) -> Starting Point of 1/2 2/2 PK = (xk+1)+(yk 2/2) & Substitute in Pk. calulate xx & Yx value. PK = (0+1) + (x -1/2)2-82 = 1+8+14-2-82 Pic = 5/4 -> consider only integers
part. avoid fractions Part .

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2(1-1)-[Px =1-8.] PK+1= PK+2(xK+1)+(yK+)2-yR2)-1 + (Yx+1 M ) +1. (1+00)= If (PK >0) = YK+1 = YK-1. Ne = (xx+1) Yx-1) If (PK <0) YK+1 = YK, Y- 1+X NC = (2x+1, yx). Stop the iteration 27. based on the first octant, we can fill remainer octant. Example: wing point: e (r.0) Po = 1-8=1-8=-7. PK = (0+1) + (0 -1/2) - 32 - 1+3+1/4-4. 82

Example;

PK+1=PK+2 (2K+1)+ (42+1-4x)-(1K41-4K)+1

K	(sek, yk)	Px	20K+1 17K+1.				
0	(0,8)	(F#-)	(1, 8)				
Paul -	-7+2 (6	11 14 00	=8-4K=8=0				
KHIZ	= -7+2+	1 - 4	(2.0)				
		- control - Commence of the Co	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
(128)	(8,75)	(F4g-	(2,8).				
PK+1=	-4+2(1-	1)+0-0	4) (F.A)				
(5)+	= -4+4	+(= 13 -	(5,6)				
2	(2,8)	(7.3-	(3,7).				
PK+1:	1+2 (2+1)	+ (49 - 60	+)-(7-8)+1				
-17	= 1+68-1	5+1+1=	9-15 =-6				
3)	( <del>1,8)</del> (3,7	1-62-	(4)\$).				
PK+1 =	-6+2 (3+1		1 (0/2)				
	=-6+8-	H1=3.					
4.	(4,8)	3	(5,6)				
Pre+1	= 3+2(4+1	1 (36-4	9)-(6-7)+1				
	1	-13+1+1=					
5	(5,6)	2	(6,5) (x>y)				

(0,8), (1,8) (2,8) (3,7) (4,7), (5,6), (6,5) First Octant Points.

	KIT IKTI	26	( DEL : 35 DE)	
	Q <sub>1</sub>	Q (-x, y)	Q3 (-x,-y)	(2,-Y)
L	(8, O)	(0,8)	(0,8)	(8,0)
	(1,8)	(-1,8)	(-1, -8)	
	(2,8)	(-2,8)	(-2, -8)	
	(3,7)	(-3)7)		(3,-7)
1	(4,7)	(-4,7)	(-4,-7)	
	(5, 6) 0,	L-5,6)	(-6, -6)	
	(6,5) Q2	L-6,5)	(8,2,)	W
	(7,4)	(-7,4)	(-7,-4)	1 / 1 / 1
and the same	(7,3)	(-7,3)	(C-7,-3)	
	- (8) A	(-8,2)	(-8,-2)	
	(8,1)	(-8, 1)		(1-18)
	(8,0)	(-8,0)	(-8,0)	8-0).
	(8,6)	)	(4.8)	4.

Pat 1 = 3+2 (4+1) + (30-49) - (6-+)

2 =1+1+5,-01+8

2(9) = (6,2)