Priyanshu Malhuria
02921402019

classmate
Date
Page

Computer Graphics

Ans 2) Mid point Circle theorem

$P_0 = 1 - r$

$P_k < 0$

$P_{k+1} = P_k + 2(x_k + 1) + 1$

$P_k > 0$

$P_{k+1} = P_k + 2(x_{k+1}) - 2y_{k+1} + 1$

radius = 9

$P_0 = 1 - r$

$P_0 = -8$

$P_1 = -8 + 2 + 1$

$= -6$

$P_2 = 6 + 8 - 14 + 1$

$= 1$

$P_3 = -6 + 4 + 1$

$= -1$

$P_4 = -1 + 6 + 1$

$= 6$

$P_5 = 1 + 10 - 12 + 1$

$= 0$

(0, 8)

k	P_k	x_{k+1}, y_{k+1}	$2x_{k+1}$	$2y_k - 1$
0	-8	(1, 8)	1	16
1	-6	(2, 8)	4	16
2	-1	(3, 8)	6	16
3	6	(4, 7)	8	14
4	1	(5, 7)	10	12
5	1	(5, 6)	10	12
6	0	(6, 6)	12	12