Will the state of the state of

Decision Parameter)

$$P_{k+1} = (\chi_{k+1} + 1)^2 + (y_{k+1} - \frac{1}{2})^2 - y_2^2$$

$$-P - (\chi_{k+1} + 1)^2 + (y_{k+1} - \frac{1}{2})^2 - y_2^2$$

$$P_{k+1} = (x_{k+1} + 1) + (y_{k+1} - \frac{1}{2}) - y^{2}$$

$$P_{k+1} - P_{k} = (x_{k+1} + 1)^{2} + (y_{k+1} - \frac{1}{2})^{2} - y^{2}$$

$$-(x_{k} + 1)^{2} - (y_{k} - \frac{1}{2})^{2} + y^{2}$$

$$= ((x_{k} + 1) + 1)^{2} + (y_{k+1} - \frac{1}{2})^{2} - (x_{k} + 1)^{2} - (y_{k} - \frac{1}{2})^{2}$$

$$= (x_{k} + 1)^{2} + 1 + 2(x_{k} + 1) + y^{2} + 4 - y_{k+1} - (x_{k} + 1)^{2}$$

$$= 2(x_{k} + 1) + (y^{2} - y^{2}) - (y_{k+1} - y_{k}) + 1$$

$$P_{k+1} = P_{k} + [2(x_{k} + 1) + (y^{2} - y^{2}) - (y_{k+1} - y_{k}) + 1]$$

Initial parameter =>
$$P_{k} = (\chi_{k+1})^{2} + (y_{k} - \frac{1}{2})^{2} - y^{2}$$

$$= (0+1)^{2} + (y_{k} - \frac{1}{2})^{2} - y^{2}$$

$$= (0+1)^{2} + (y_{k} - \frac{1}{2})^{2} - y^{2}$$

$$= (1+y_{k} + \frac{1}{4} - y_{k} - y_{k})$$

$$= \frac{5}{4} - y_{k}$$

$$= 1.25 - y_{k} \quad (Consider integer and 1)$$

$$P_{R} = 1 - 9$$
(Consider integer only)

If
$$P_{k} > 0$$
 $y_{k+1} = y_{k} - 1$
 $N.P. = (x_{k} + 1, y_{k} - 1)$

If
$$P_{k}$$
 <0
$$y_{k+1} = y_{k}$$

$$N \cdot P_{o} = (x_{k} + 1, y_{k})$$

fill all seven octants based on this octant.