|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| STEPS | pk | (xk+1,yk+1) | 2 xk+1 | 2 yk+1 |
| 0 | -15 | 1, 16 | 2 | 32 |
| 1 | -15+2+1 = - 12 | 2, 16 | 4 | 32 |
| 2 | -12 + 4 +1 =-7 | 3, 16 | 6 | 32 |
| 3 | -7 +6+1 = 0 | 4, 15 | 8 | 30 |
| 4 | 0+8+1-30= - 21 | 5, 15 | 10 | 30 |
| 5 | -21 +10 +1 = -10 | 6, 15 | 12 | 30 |
| 6 | -10 +12 +1 =3 | 7, 14 | 14 | 28 |
| 7 | 3+14+1-28=-10 | 8, 14 | 16 | 28 |
| 8 | -10+16+1= 7 | 9, 13 | 18 | 26 |
| 9 | 7+ 18+1 – 26 = 0 | 10, 12 | 20 | 24 |
| 10 | 0 +20 +1 – 24 = -3 | 11, 12 | 22 | 24 |
| 11 | -3 +22 +1 = 20 | 12, 11 |  |  |

Radius = 16

p0=5/4 -16 =1.25 -16 = -14.75

Initial point= (0, 16)

Points for other octants

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| x, y | y, x | -x, y | x, -y | -y, x | y, -x | -x, -y | -y, -x |
| 0, 16 | 16, 0 | 0, 16 | 0, -16 | -16, 0 | 16, 0 | 0, -16 | -16, 0 |
| 1, 16 | 16, 1 | -1, 16 | 1, -16 | -16, 1 | 16, -1 | -1, -16 | -16, -1 |
| 2, 16 | 16, 2 | -2, 16 | 2, -16 | -16, 2 | 16, -2 | -2, -16 | -16, -2 |
| 3, 16 | 16, 3 | -3, 16 | 3, -16 | -16, 3 | 16, -3 | -3, -16 | -16, -3 |
| 4, 15 | 15, 4 | -4, 15 | 4, -15 | -15, 4 | 15, -4 | -4, -15 | -15, -4 |
| 5, 15 | 15, 5 | -5, 15 | 5, -15 | -15, 5 | 15, -5 | -5, -15 | -15, -5 |
| 6, 15 | 15, 6 | -6, 15 | 6, -15 | -15, 6 | 15, -6 | -6, -15 | -15, -6 |
| 7, 14 | 14, 7 | -7, 14 | 7, -14 | -14, 7 | 14, -7 | -7, -14 | -14, -7 |
| 8, 14 | 14, 8 | -8, 14 | 8, -14 | -14, 8 | 14, -8 | -8, -14 | -14, -8 |
| 9, 13 | 13, 9 | -9, 13 | 9, -13 | -13, 9 | 13, -9 | -9, -13 | -13, -9 |
| 10, 12 | 12, 10 | -10, 12 | 10, -12 | -12, 10 | 12, -10 | -10, -12 | -12, -10 |
| 11, 12 | 12, 11 | -11, 12 | 11, -12 | -12, 11 | 12, -11 | -11, -12 | -12, -11 |