y=11

|  |  |  |  |
| --- | --- | --- | --- |
| 2.6 | 12 | 2/5 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 4 | 12 | -1 |  |

y=10

|  |  |  |  |
| --- | --- | --- | --- |
| 2.2 | 12 | 2/5 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 5 | 12 | -1 |  |

y=9

去掉

|  |  |  |  |
| --- | --- | --- | --- |
| 1.8 | 12 | 2/5 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 6 | 12 | -1 | ˆ |

y=8

|  |  |  |  |
| --- | --- | --- | --- |
| 7 | 12 | -1 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 1.4 | 12 | 2/5 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 7 | 9 | 5 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 115 | 9 | 1/2 | ˆ |

y=7

去掉

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 12 | 2/5 | ˆ |

|  |  |  |  |
| --- | --- | --- | --- |
| 11 | 9 | 1/2 | ˆ |

y=6

|  |  |  |  |
| --- | --- | --- | --- |
| 10.5 | 9 | 1/2 | ˆ |

|  |  |  |  |
| --- | --- | --- | --- |
| 1.3 | 7 | -1/3 | 1 |

y=5

|  |  |  |  |
| --- | --- | --- | --- |
| 1.7 | 7 | -1/3 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
| 10 | 9 | 1/2 | ˆ |

去掉 先拿上去，然后再删除

y=4

|  |  |  |  |
| --- | --- | --- | --- |
| 2 | 7 | -1/3 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 5(1/4) | 5 | 3/4 | ˆ |

|  |  |  |  |
| --- | --- | --- | --- |
| 6(1/5) | 5 | -1/2 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 9(1/2) | 9 | 1/2 | ˆ |

y=3

|  |  |  |  |
| --- | --- | --- | --- |
| 2(1/3) |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **7** |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 9 |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 4(1/2) |  |  | ˆ |

y=2

|  |  |  |  |
| --- | --- | --- | --- |
| 2(2/3) | 7 | -1/3 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 3(3/4) | 5 | 3/4 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 7(1/2) | 5 | -1/2 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 8(1/2) | 9 | 1/2 | ˆ |

y=1

|  |  |  |  |
| --- | --- | --- | --- |
| 3 | 7 | -1/3 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 3 | 5 | 3/4 | ˆ |

|  |  |  |  |
| --- | --- | --- | --- |
| **8** | **5** | **-1/2** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 8 | 9 | 1/2 | ˆ |

1. 直线起点（3，8），（9，7）采用中点presenham边线算法，给出直线上每点的x、y坐标和判断因子的值。

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| 1 | 3 | 2 | -4 |
| 2 | 4 | 3 | -2 |
| 3 | 5 | 4 | 0 |
| 4 | 6 | 4 | -10 |
| 5 | 7 | 5 | -8 |
| 6 | 8 | 6 | -6 |
| 7 | 9 | 7 | -4 |

1. 圆心在原点，半径为15像素，用中点画圆算法画圆，前4点的判断因子以及坐标d、x、y分别是多少？

|  |  |  |  |
| --- | --- | --- | --- |
| k |  |  |  |
| 0 | -13.75（或-14） | 0 | 15 |
| 1 | -10.75（或-11） | 1 | 15 |
| 2 | -5.75（或-6） | 2 | 15 |
| 3 | 1.25（1） | 3 | 15 |

1. 根据中点Breseham画圆算法，显示一个半径为16的圆，写出y=16时每点判断因子d和x、y坐标。

|  |  |  |  |
| --- | --- | --- | --- |
| x | y | d | 近似 |
| 0 | 16 | -14.75 | -15 |
| 1 | 16 | -11.75 | -12 |
| 2 | 16 | -6.75 | -7 |
| 3 | 16 | 0.25 | 0 |

最后一页的表格：

|  |  |  |  |
| --- | --- | --- | --- |
| i |  |  |  |
| 0 | -9（或-8.75） | 0 | 10 |
| 1 | -6（或-5.75） | 1 | 10 |
| 2 | -1（或-0.75） | 2 | 10 |
| 3 | 6（或6.25） | 3 | 10 |
| 4 | -3（或-2.75） | 4 | 9 |
| 5 | 8（或8.25） | 5 | 9 |
| 6 | 5（或5.25） | 6 | 8 |
| 7 | 6（或6.25） | 7 | 7 |

|  |  |  |  |
| --- | --- | --- | --- |
| i |  |  |  |
| 1 | -9（或-8.75） | 1 | 10 |
| 2 | -6（或-5.75） | 2 | 10 |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| -11 | 0 | 12 |
| -8 | 1 | 12 |
| -3 | 2 | 12 |
| 4 | 3 | 12 |
| -9 | 4 | 11 |
| 2 | 5 | 11 |
| -5 | 6 | 10 |
| 10 | 7 | 10 |
| 9 | 8 | 9 |
| 12 | 9 | 8 |