"Polygons=[(4,3),(5,7),(8,7),(11,7),(1,10);(0,2),(1,4),(2,6),(3,8),(100,202),(5,2);(1,1),(2,2),(3,3),(4,4),(6,6),(8,2),(8,2),(1,1);(2,-3),(6,8),(9,12),(5,4),(0,5),(1,1);(3,3),(3,3),(5,5),(3,4),(3,4),(3,4),(5,7);(7,3),(4,7),(8,6),(7,3),(7,3),(7,3);(13,1),(1,1),(1,2),(1,5),(7,0)]"

|  |
| --- |
| **Number\_Polygons**=7 |
| **Total\_Number\_Points=43** |
| **Minimum\_X**=0 |
| **Maximum\_X**=100 |
| **Minimum\_Y**= -3 |
| **Maximum\_Y**=202 |
| **Enclosing\_Rectangle=(0,-3),(0,202),(100,202),(100,-3)** |
| **Total\_Redundant\_Points**=17 |
| **Quit** |

|  |
| --- |
| **Polygon\_Points** n |
| **Point\_Polygons** (1,2)=7, |
| **List\_Polygons\_Points More** 3=1,4,5,7, |
| **List\_Polygons\_Points Less** 4=2,3,6, |
| **List\_Polygons\_Points Equal** 4=1,5,7, |
| **List\_Points\_Polygons More** 2=(1,1), |
| **List\_Points\_Polygons Less** 2=(4,3),(8,7),(11,7),(1,10);(0,2),(1,4),(2,6),(3,8),(100,202),(5,2),(2,2),(3,3),(4,4),(6,6),(8,2),(8,2), (2,-3),(6,8),(9,12),(5,4),(0,5);(3,3),(3,3),(5,5),(3,4),(3,4),(3,4),(7,3),(4,7),(8,6),(7,3),(7,3),(7,3);(13,1),(1,2),(1,5),(7,0) |
| **List\_Points\_Polygons Equal** 3 = (1,1), |
| **Polygon\_Perimeter** 1=20.5634 |
| **List\_Triangles** |
| **List\_Rectangles** |
| **List\_Trapezoid** |

|  |
| --- |
| **Inside\_Rectangle** (1,2),(1,5),(6,5),(6,1)=1,4, |
| **Inside\_Circle** (1,2),5=1,2,4,7, |
| **Polygon\_Area**  1=18.5 |
| **Polygons\_Area\_Range 10**,50=1,4, |

"Polygon=[(1,1),(2,2),(1,3),(0,2);(1,1),(6,1),(6,5),(1 ,5);(2,3),(5,3),(4,8);(5,5),(7,7),(7,7),(6,8),(4,11),(3,10),(2,5),(3,3),(3,3),(5,5);(4,5),(7,8),(6,11),(3,8);(2,6),(5,8),(5,13),(1,11);(0,6),(2,10),(2,12),(-1,13),(-2,11),(-2,7);(-5,5),(-1,5),(-1,10),(-1,10),(-5,12);(-4,4),(-1,8),(-2,10),(-4,4);(-5,3),(-3,3),(-1,3),(-3,7),(-5,6);(-2,-1),(-4,-4),(-4,-7),(-2,-9),(-2,-4),(-2,-1);(-2,-7),(-4,-10),(-1,-12);(-1,-6),(-3,-6),(-2,-9),(1,-11),(3,-6),(0,-6),(-1,-6);(1,-9),(4,-2),(7,-5),(4,-11);(5,-5),(1,-3),(4,1),(7,2),(7,-6);(-1,1),(-2,2),(3,5),(4,4)]"

|  |
| --- |
| **List\_Triangles**=3,9,12, |
| **List\_Rectangles**=1, |
| **List\_Trapezoid**=11, |