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Id: 201-15-3160
Code:
#include<windows.h>
#include <gl/glut.h>
#include <Windows.h>
#include <iostream>
using namespace std;
void circle() {
glColor3f(1.0, 0.0, 0.0);
glPointSize(2.0);
float r = 100;
float x = 0, y = r;
float p = 1 - r;
glBegin(GL_POINTS);
while (x != y)
{
 χ++;
 if (p < 0) {
 p += 2 * (x + 1) + 1;
 }
 else {
 y--;
 p += 2 * (x + 1) + 1 - 2 * (y - 1);
 glVertex2i(x, y);
 glVertex2i(-x, y);
 glVertex2i(x, -y);
 glVertex2i(-x, -y);
```

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glVertex2i(y, x);
glVertex2i(-y, x);
glVertex2i(y, -x);
glVertex2i(-y, -x);
}
glEnd();
glFlush();
}
int main(int argc, char ** argv) {
glutInit(&argc, argv);
glutInitDisplayMode(GLUT_SINGLE | GLUT_RGB);
glutInitWindowSize(500, 500);
glutInitWindowPosition(100, 100);
glutCreateWindow("Circle");
glClearColor(1.0, 1.0, 1.0, 1.0);
glClear(GL_COLOR_BUFFER_BIT);
gluOrtho2D(-250, 250, -250, 250);
glMatrixMode(GL_PROJECTION);
glViewport(0, 0, 500, 500);
glutDisplayFunc(circle);
glutMainLoop();
return 0;
}
```

Screenshot:

