



```
void miDibujo(void)
{
    GLfloatPoint C;
    GLfloatPoint centro[5]={
        {-70.0f,-30.0f},{-8.0f,0.0f},{40.0f,-30.0f},{55.0f,-30.0f},{-50.0f,45.0f}
        };

    GLfloat theta=0.0f,dtheta;

    GLfloat a[5]= { {5.0f},{20.0f},{30.0f},{30.0f},{40.0f}};

    GLfloat b = -7.0f;

    GLint i;

    GLdouble r;

    glClear(GL_COLOR_BUFFER_BIT);        // Limpia la ventana
```

//Generacion de las curvas paramétrica

```
for(i=0;i<5;i++)    {  
    glBegin(GL_LINE_STRIP);  
    dtheta = 1.0f/(float) a[i];  
    theta =0.0f;  
    while (theta <= DOS_PI+dtheta){  
    switch(i){  
    case (0): { r = a[i] * theta;          glColor3f(1.0f,0.0f,0.0f);} break;  
    case (1): { r = a[i] * cos (theta) + b;  glColor3f(0.0f,1.0f,0.0f);} break;  
    case (2): { r = a[i] * (1 + cos (theta)); glColor3f(0.0f,0.0f,1.0f);} break;  
    case (3): { r = a[i] * cos (3 * theta);  glColor3f(0.0f,0.8f,1.0f);} break;  
    case (4): { r = a[i] * cos (2 * theta);  glColor3f(0.0f,0.0f,0.0f);} break;  
    }  
    C.x = ( centro[i].x + r * cos (theta) );  
    C.y = ( centro[i].y + r * sin (theta) );  
    glVertex2f(C.x, C.y);  
    theta += dtheta;  
    } glEnd();  
} glFlush(); }
```