```
#include <stdio.h>
#include <conio.h>
#include < graphics.h>
#include <stdlib.h>
int main(void){
  int gd = DETECT, gm;
  float xk, yk, xc, yc, rx, ry, pk;
  initgraph(&gd, &gm, "C:\\TURBOC3\\BGI");
  printf("Enter center of the ellipse x, y");
  scanf("%f %f", &xc, &yc);
  printf("Enter major radius and minor radius");
  scanf("%f %f", &rx, &ry);
 xk = 0;
 yk = ry;
  pk = ry * ry - rx * rx * ry + rx * rx / 4;
  while (2 * ry * ry * xk < 2 * rx * rx * yk){
 xk++;
 if(pk < 0)
  pk += 2 * ry * ry * xk + ry * ry;
```

```
else{
  yk--;
  pk += 2 * ry * ry * xk - 2 * rx * rx * yk + ry * ry;
  putpixel(xk + xc, yk + yc, 7);
  putpixel(-xk + xc, yk + yc, 7);
  putpixel(-xk + xc, -yk + yc, 7);
  putpixel(xk + xc, -yk + yc, 7);
  pk = ry * ry * (xk + 0.5) * (xk + 0.5) + rx * rx * (yk - 1) * (yk - 1) - rx * rx * ry * ry;
  while(yk > 0){
  yk--;
  if(pk > 0)
  pk = 2 * rx * rx * yk + rx * rx;
  else{
  xk++;
  pk += 2 * ry * ry * xk - 2 * rx * rx * yk + rx * rx;
```