

```

//TORR
#include<stdlib.h>
#include<stdio.h>
#include<conio.h>
#include<graphics.h>
#include<math.h>
#include<dqs.h>

int xemin=0,xemax=400,yemin=0,yemax=400;
float xrmin=-10,xrmax=10,yrmin=-10,yrmax=10;
float sx=(xemax-xemin)/(xrmax-xrmin);
float sy=(yemax-yemin)/(yrmax-yrmin);
float r=1,R=4;

void init(){
int gdriver=VGA,gmode=VGAHI,errorcode;
initgraph(&gdriver,&gmode,"C:\\tc\\bgi");
errorcode=graphresult();
if (errorcode != grOk) /* an error occurred */
{
printf("Graphics error: %s\n", grapherrormsg(errorcode));
printf("Press any key to halt:");
getch();
exit(1); /* return with error code */
}
}

void axe(){
setcolor(15);
line(xemin,yemax/2,xemax,yemax/2);
moveto(xemax,yemax/2);
linerel(-5,-5);
linerel(0,10);
linerel(5,-5);
line(xemax/2,yemin,xemax/2,yemax);
}

int xe(float xr)
{
int xe;
xe=xemin+sx*(xr-xrmin);
return xe;
}

int ye(float yr)
{
int ye;
ye=yemax-sy*(yr-yrmin);
return ye;
}

float f1(float u,float v){return (R+r*cos(u))*cos(v);}
float f2(float u,float v){return (R+r*cos(u))*sin(v);}
float f3(float u,float v){return r*sin(u);}

float xp(float a,float b,float c){
return a-b*cos(M_PI/4)/2;
}

```