//rkfourthorder

Funcprot(0);

Deff(‘[z]=f(x,y)’,’z=x^2+2\*y’)

X0=0

Y0=1.1

H=0.1

N=15

For i=1:n

K1=h\*f(x0,y0);

K2=h\*f(x0+h/2,y0+k1/2);

K3=h\*f(x0+h/2,y0+k2/2);

K4=h\*f(x0+h,y0+k3);

Y1=y0+[(1/6)\*(k1+2\*k2+2\*k3+k4)]

X0=x0+h;

Y0=y1;

End