// newtns div diff

X=[101 103….]

Y=[3.7 2.3….]

Xg=102

N length(y)

M=n;

K=n;

Pr=1;

Yg=y(1);

For i=1:n-1

Uy=y(2:m);

Ly=y(1:m-1);

N=uy-ly;

Ux=x(i+1:k);

Lx=x(1:k-i);

D=ux-lx;

D=N/D

Pr=pr\*(xg-x(1));

Yg=yg+pr\*d(1);

M=m-1;

Y=d;

End

Yg