

```

CRK4[]["Step"[rhs_, t_, h_, y_, yp_]]:=Module[{k0, k1, k2, k3}, k0=h y p;
  k1=h rhs[t+h/2,y+k0/2];
  k2=h rhs[t+h/2,y+k1/2];
  k3=h rhs[t+h,y+k2];
  {h,(k0+2 k1+2 k2+k3)/6}]

fixed=NDSolve[{y'[x]==2*x*y[x]+x,y[0]==0},y[x],{x,0,0.4},Method→CRK4]
{{y[x]→InterpolatingFunction[{{0.,0.4}},]<>>[x]}}

Plot[Evaluate[y[x]/.s],{x,0,0.4},PlotRange→All]

```

