>  **restart:**

> **with(plots);**

Warning, the name changecoords has been redefined



> **F:=u->u\*u\*u/3;**



> **U0:=x->sin(x);**



>

> **A1:=implicitplot((u-U0(x-diff(u\*u\*u/3,u)\*0.1)=0,x=-0.5..0.5,u=-1..1),style=line,color=red):**

**A2:=implicitplot((u-U0(x-diff(u\*u\*u/3,u)\*0.2)=0,x=-0.5..0.5,u=-1..1),style=line,color=orange):**

**A3:=implicitplot((u-U0(x-diff(u\*u\*u/3,u)\*0.3)=0,x=-0.5..0.5,u=-1..1),style=line,color=yellow):**

**A4:=implicitplot((u-U0(x-diff(u\*u\*u/3,u)\*0.4)=0,x=-0.5..0.5,u=-1..1),style=line,color=green):**

**A5:=implicitplot((u-U0(x-diff(u\*u\*u/3,u)\*0.5)=0,x=-0.5..0.5,u=-1..1),style=line,color=blue):**

**A6:=implicitplot((u-U0(x-diff(u\*u\*u/3,u)\*0.6)=0,x=-0.5..0.5,u=-1..1),style=line,color=black):**

**A7:=implicitplot((u-U0(x-diff(u\*u\*u/3,u)\*0.7)=0,x=-0.5..0.5,u=-1..1),style=line,color=red):**

**A8:=implicitplot((u-U0(x-diff(u\*u\*u/3,u)\*0.8)=0,x=-0.5..0.5,u=-1..1),style=line,color=green):**

**A9:=implicitplot((u-U0(x-diff(u\*u\*u/3,u)\*0.9)=0,x=-0.5..0.5,u=-1..1),style=line,color=black):**

**A10:=implicitplot((u-U0(x-diff(u\*u\*u/3,u)\*1)=0,x=-0.5..0.5,u=-1..1),style=line,color=brown):**

**A11:=implicitplot((u-U0(x-diff(u\*u\*u/3,u)\*1.375)=0,x=-0.5..0.5,u=-1..1),style=line,color=black):**

> **display({A1,A2,A3,A4,A5,A6,A7,A8,A9,A10,A11});**



>