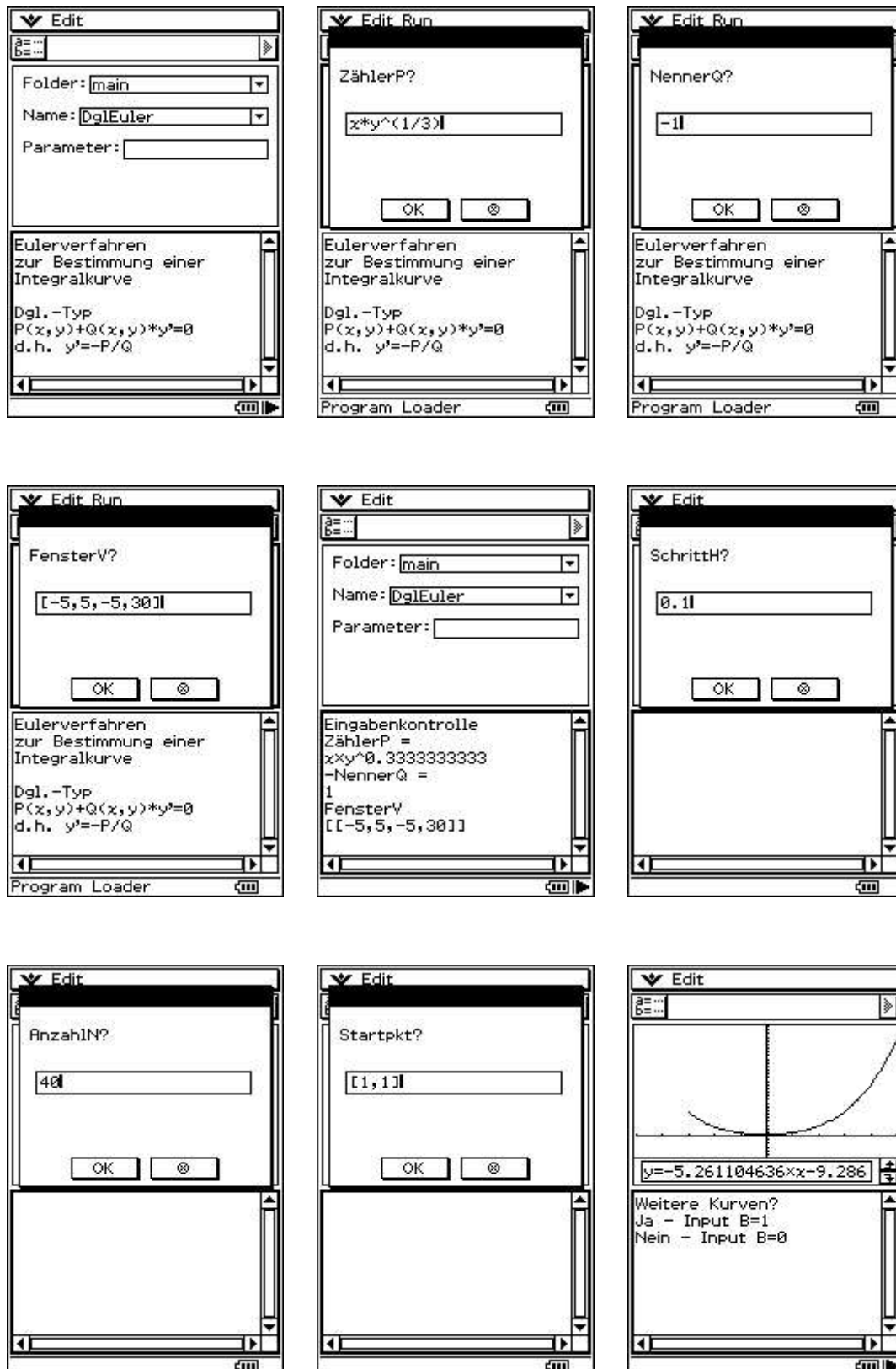


Eulerverfahren mit dem ClassPad300 (Programm)



Programmtext:

```
▼ Edit Ctrl I/O Misc
DglEuler  N
SetDecimal
SetDispGCon Off
SetLabel Off:SetDrawCon
ClrText
DelVar x,y,P,Q
Print "Eulerverfahren"
Print "zur Bestimmung ein
er"
Print "Integralkurve"
Print " "
Print "Dgl.-Typ"
Print "P(x,y)+Q(x,y)*y'=0"
Print "d.h. y'=-P/Q"
Pause
1⇒Z
While Z=1
DelVar x,y,P,Q
Input ZählerP
Program Editor
```

```
▼ Edit Ctrl I/O Misc
DglEuler  N
Input NennerQ
Input FensterV
FensterV[1,1]⇒xmin
FensterV[1,2]⇒xmax
FensterV[1,3]⇒ymin
FensterV[1,4]⇒ymax
ViewWindow xmin,xmax,1,
ymin,ymax,1
Define yz(x,y)=ZählerP
Define yn(x,y)=-NennerQ
ClrText
Print "Eingabekontrolle"
Print "ZählerP ="
Print ZählerP
Print "-NennerQ ="
Print -NennerQ
Print "FensterV"
Print FensterV
Pause
Program Editor
```

```
▼ Edit Ctrl I/O Misc
DglEuler  N
ClrText
1⇒A
While A=1
Input SchrittH
Input AnzahlN
SchrittH⇒H
AnzahlN⇒N
1⇒B
While B=1
Input Startpkt
Startpkt[1,1]⇒U
Startpkt[1,2]⇒V
U⇒x:V⇒y
For 1⇒I To N Step 1
approx(yz(x,y)*H)⇒T
approx(yn(x,y)*H)⇒S
Line x,y,x+S,y+T
approx(y+T)⇒y
approx(x+S)⇒x
Program Editor
```

```
▼ Edit Ctrl I/O Misc
DglEuler  N
Next
U⇒x:V⇒y
For 1⇒I To N Step 1
approx(yz(x,y)*H)⇒T
approx(yn(x,y)*H)⇒S
Line x,y,x-S,y-T
approx(y-T)⇒y
approx(x-S)⇒x
Next
Print "Weitere Kurven?"
Print "Ja - Input B=1"
Print "Nein - Input B=0"
Pause
ClrText
Input B
WhileEnd
Print "SchrittH, AnzahlN"
Print "ändern?"
Print "Ja - Input A=1"
Program Editor
```

```
▼ Edit Ctrl I/O Misc
DglEuler  N
WhileEnd
Print "SchrittH, AnzahlN"
Print "ändern?"
Print "Ja - Input A=1"
Print "Nein - Input A=0"
Pause
ClrText
Input A
WhileEnd
Print "Andere Dgl. vorgeb
en?"
Print "Ja - Input Z=1"
Print "Nein - Input Z=0"
Pause
Input Z
WhileEnd
Stop
Program Editor
```