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1: ()
2: Prgm
3: Local  strappx, strddig, strangl, p, q, r
4: ClrHome
5: Disp  "Approach version 2"
6: Disp  "Changing modes:"
7: getMode("Exact/Approx")→strappx
8: If strappx≠"APPROXIMATE" Then
9: Disp  "Set to Approximate"
10: setMode("Exact/Approx", "APPROXIMATE")
11: EndIf
12: getMode("Display Digits")→strddig
13: If strddig≠"FLOAT" Then
14: Disp  "Set FLOAT"
15: setMode("Display Digits", "FLOAT")
16: EndIf
17: getMode("Angle")→strangle
18: If strangle≠"RADIANT" Then
19: Disp  "Set Radian"
20: setMode("Angle", "RADIANT")
21: EndIf
22: Pause  "Enter to start"
23: Custom
24: Title  "F(A,B)"
25: Title  "GOAL"
26: Title  "START"
27: Title  "MOVE"
28: Title  "Quit"
29: EndCustm
30: CustmOn
31: Lbl  1b101
32: While  1<2
33: getKey()→k
34: While  k=0
35: getKey()→k
36: EndWhile
37: If k=268 Then
38: InputStr  "F(A,B)=", str1
39: Define  apprch(a,b)=expr(str1)
40: 269→k
41: EndIf
42: If k=269 Then
43: Disp  "Goal Point:"
44: Input  "X=", c
45: Input  "Y=", d
46: 270→k
47: EndIf
48: If k=270 Then
49: Disp  "Starting Point:"
50: Input  "X=", h
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51: Input  "Y=",i
52: Disp  "Fraction to Move:"
53: Input  "Fraction:",g
54: h→e
55: i→f
56: 271→k
57: EndIf
58: If k=271 Then
59: Disp  "AT",e,f,"Value of F(A,B)="
60: e→a
61: f→b
62: Disp  apprch(a,b)
63: If (h-e)*(i-f)≠0 Then
64: Disp  "Slope="
65: Disp  (r-apprch(a,b))/(√((a-p)^2+(b-q)^2))
66: EndIf
67: e→p
68: f→q
69: apprch(a,b)→r
70: e-(e-c)*g→e
71: f-(f-d)*g→f
72: Goto 1b101
73: EndIf
74: If k=272 Then
75: Disp  "Restore settings"
76: setMode("Exact/Approx",strappx)
77: setMode("Display Digits",strddig)
78: setMode("Angle",strangle)
79: Disp  "Done...Ready to go HOME"
80: CustmOff
81: DispHome
82: Stop
83: Goto 1b101
84: EndIf
85: EndWhile
86: EndPrgm
```