

HP-41C Routine Listing of 8K PPC Custom ROM IG  
PPC Calculator Journal V8 N2 P3/5 Mar-Apr 1981

```
01 LBL "IG"      ;Integrate - XROM 20,09
02 LBL B
03 STO 17
04 X<>Y
05 -
06 4
07 /
08 STO 16
09 ST- 17
10 ST- 17
11 .
12 STO 15
13 STO 11
14 STO 18
15 SF 09
16 LBL 01
17 E
18 2
19 STO 14
20 RCL 11
21 CHS
22 Y^X
23 ST* 14
24 E
25 -
26 LBL 02
27 STO 12
28 X^2
29 -
30 STO 13
31 2
32 +
33 RCL 12
34 *
35 RCL 16
36 *
37 RCL 17
38 +
39 XEQ IND 10
40 RCL 13
41 *
42 ST+ 15
43 E
44 RCL 12
45 RCL 14
46 +
47 X<Y?
48 GTO 02
49 RCL 11
50 STO 13
51 18
52 STO 12
53 E
54 ST+ 11
55 RCL 15
56 RCL 16
57 1.5
58 *
59 *
60 RCL 14
61 *
62 LBL 03
63 R^
64 4
65 *
66 ENTER
67 DSE Y
```

```

68 X<> Z
69 ENTER
70 X<> IND 12
71 ST- Y
72 RND
73 X<> Z
74 /
75 RCL IND 12
76 +
77 ISG 12
78 STOP
79 DSE 13
80 GTO 03
81 STO IND 12
82 FS? 10
83 VIEW X
84 FS?C 09
85 GTO 01
86 RND
87 X#Y?
88 GTO 01
89 LASTX
90 RTN
91 LBL C
92 LBL "SV" ;Solve Routine - XROM 20,10
93 STO 07
94 E
95 %
96 RCL Z
97 X=0?
98 X<>Y
99 STO 09
100 CLST
101 LBL 04
102 RCL Z
103 STO 08
104 RCL 07
105 FS? 10
106 VIEW X
107 XEQ IND 06
108 ST* 09
109 ST- 08
110 RCL 09
111 RCL 08
112 X#0?
113 /
114 STO 09
115 X<> 07
116 ST+ 07
117 RND
118 RCL 07
119 RND
120 X#Y?
121 GTO 04
122 RCL 07
123 RTN
124 LBL D
125 LBL "FD" ;First Derivative - XROM 20,11
126 FS? 09
127 GTO 08
128 17
129 XROM 20,03 ;SD (Store Display Mode)
130 SCI 01
131 2 E-3
132 STO 14
133 LBL 05
134 RCL 12
135 .7
136 *
137 RND

```

```
138 STO 12
139 XEQ 08
140 ENTER
141 X<> 16
142 -
143 ENTER
144 FS? 10
145 VIEW X
146 X<> 15
147 ISG 14
148 GTO 05
149 LASTX
150 RDN
151 X=0?
152 GTO 07
153 /
154 E
155 X<>Y
156 X<0?
157 GTO 06
158 X<Y?
159 GTO 05
160 LBL 06
161 X<> L
162 LBL 07
163 R^
164 .7
165 ST/ 12
166 CLX
167 17
168 XROM 20,05 ;RD (Recall Display Mode)
169 RTN
170 LBL 08
171 .
172 STO 13
173 XEQ IND 10
174 11
175 XEQ 09
176 -18
177 XEQ 09
178 9
179 XEQ 09
180 ST+ X
181 RCL 13
182 -
183 RCL 12
184 3
185 *
186 ST- IND 11
187 ST+ X
188 /
189 ENTER
190 RTN
191 LBL 09
192 *
193 ST+ 13
194 RCL 12
195 ST+ IND 11
196 GTO IND 10
197 END
```

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012DC600F3004947CF679111714114439110931193111A3F3B  
9112A809021B00123E2B5453940E1B41033C51413D12402C42  
901042901140AE8A2D42920F1B2C2E4044B3002B3D11183C1B  
920B2F9010111A1542422E4204741442839772CE7183CE8C93  
726ECE7143908C40960C84970DB400918CAC0A9873AA09B200  
6E79B2007685CF68CA12F3005356371B4C9071677139730590  
713827AC0A9873AE86940993082928634339CE0792076E276E  
79B5002785CF69C007F3004644AC09B9001117A5039D01121B  
1C133E062C1A17426E3CE0000883CE104183AC0A9873CE0F96  
0EB600767567B800431B7166B70044B60007CE7408741A1795  
0C771117A50585091A3DAE8A1111E000091C1118E0000919E0  
000992732D412C1342938B92734383850A42920D2C928BAE0A  
CC10090F

301 BYTES

## HP-41C PPC ROM IG Group PPC V8 N2 Page 3/5 Mar-Apr 1981

Program Registers Needed: 43

Row 1 (1 - 6)



Row 2 (7 - 15)



Row 3 (15 - 25)



Row 4 (26 - 37)



Row 5 (37 - 47)



Row 6 (48 - 56)



Row 7 (57 - 67)



Row 8 (67 - 75)



Row 9 (75 - 82)



Row 10 (83 - 91)



Row 11 (91 - 97)



Row 12 (98 - 107)



Row 13 (107 - 116)



Row 14 (116 - 125)



Row 15 (125 - 130)



Row 16 (130 - 138)



Row 17 (139 - 146)



Row 18 (146 - 155)



Row 19 (156 - 164)



Row 20 (165 - 173)



Row 21 (174 - 179)



Row 22 (179 - 187)



Row 23 (188 - 197)



Row 24 ( 197 )

