

HP-41C Wand Digitizer Program by Jake Schwartz
PPC Calculator Journal V8 No 5 Pg 18 July 1981

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01 LBL "AREA" ;Area of a Figure in 2 Dimensions
02 CLRG
03 XEQ "SUB" ;Set Boundaries and Scale (Line 172)
04 LBL A
05 "X VAL?"
06 AVIEW
07 XROM 27,05 ;WNDSCN
08 RCL 01
09 PSE
10 RCL 04
11 *
12 RCL 05
13 +
14 STO 11
15 STO 13
16 "Y VAL?"
17 AVIEW
18 XROM 27,05 ;WNDSCN
19 RCL 01
20 PSE
21 RCL 02
22 *
23 RCL 03
24 +
25 STO 12
26 STO 14
27 LBL 02
28 "X VAL?"
29 AVIEW
30 XROM 27,05 ;WNDSCN
31 RCL 01
32 PSE
33 255
34 X=Y?
35 GTO "FIN" ;Calculate and Display Area (Line 65)
36 RDN
37 RCL 04
38 *
39 RCL 05
40 +
41 STO 15
42 "Y VAL?"
43 AVIEW
44 XROM 27,05 ;WNDSCN
45 RCL 01
46 PSE
47 RCL 02
48 *
49 RCL 03
50 +
51 STO 16
52 RCL 13
53 RCL 16
54 *
55 RCL 14
56 RCL 15
57 *
58 -
59 ST+ 17
60 RCL 15
61 STO 13
62 RCL 16
63 STO 14
64 GTO 02
65 LBL "FIN" ;Calculate and Display Area
66 RCL 15
67 RCL 12
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68 *
69 RCL 16
70 RCL 11
71 *
72 -
73 ST+ 17
74 2
75 ST/ 17
76 RCL 17
77 ABS
78 CLA
79 "AREA = "
80 ARCL X
81 AVIEW
82 RTN
83 LBL "LFIT" ;Line Fit with Correlation Coefficient
84 SREG 11 ;SigmaREG 11
85 CLRG
86 XEQ "SUB" ;Set Boundaries and Scale (Line 172)
87 LBL B
88 "X VAL?"
89 AVIEW
90 XROM 27,05 ;WNDSCN
91 RCL 01
92 255
93 X=Y?
94 GTO "OVER" ;Calculate and Display Line Info (Line 112)
95 RDN
96 RCL 04
97 *
98 RCL 05
99 +
100 STO 10
101 "Y VAL?"
102 AVIEW
103 XROM 27,05 ;WNDSCN
104 RCL 01
105 RCL 02
106 *
107 RCL 03
108 +
109 RCL 10
110 S+ ;Sigma+
111 GTO B
112 LBL "OVER" ;Calculate and Display Line Info
113 CLA
114 ARCL 16
115 ">" POINTS"
116 AVIEW
117 RCL 15
118 RCL 11
119 RCL 13
120 *
121 RCL 16
122 /
123 -
124 RCL 12
125 RCL 11
126 X^2
127 RCL 16
128 /
129 -
130 /
131 STO 10
132 CLA
133 "Y= "
134 ARCL 10
135 ">"X + "
136 RCL 13
137 X<>Y

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138 RCL 11
139 *
140 -
141 RCL 16
142 /
143 ARCL X
144 AVIEW
145 RCL 15
146 RCL 11
147 RCL 13
148 *
149 RCL 16
150 /
151 -
152 RCL 12
153 RCL 11
154 X^2
155 RCL 16
156 /
157 -
158 RCL 13
159 X^2
160 RCL 16
161 /
162 RCL 14
163 X<>Y
164 -
165 *
166 SQRT
167 /
168 "CORR= "
169 ARCL X
170 AVIEW
171 RTN
172 LBL "SUB" ;Set Boundaries and Scale
173 "LOWER X?"
174 AVIEW
175 XROM 27,05 ;WNDSCN
176 RCL 01
177 PSE
178 STO 02
179 "VALUE?"
180 PROMPT
181 STO 03
182 "LOWER Y?"
183 AVIEW
184 XROM 27,05 ;WNDSCN
185 RCL 01
186 PSE
187 STO 04
188 "VALUE?"
189 PROMPT
190 STO 05
191 "UPPER X?"
192 AVIEW
193 XROM 27,05 ;WNDSCN
194 RCL 01
195 PSE
196 STO 06
197 "VALUE?"
198 PROMPT
199 STO 07
200 "UPPER Y?"
201 AVIEW
202 XROM 27,05 ;WNDSCN
203 RCL 01
204 PSE
205 STO 08
206 "VALUE?"
207 PROMPT

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208 STO 09
209 RCL 07
210 RCL 03
211 -
212 RCL 06
213 RCL 02
214 -
215 /
216 STO 02
217 RCL 06
218 *
219 CHS
220 RCL 07
221 +
222 STO 03
223 RCL 09
224 RCL 05
225 -
226 RCL 08
227 RCL 04
228 -
229 /
230 STO 04
231 RCL 08
232 *
233 CHS
234 RCL 09
235 +
236 STO 05
237 RTN
238 END

```

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01C2C000F500415245418A1EF3535542CF66F6582056414C3F
7EA6C52189244225403B3DF6592056414C3F7EA6C521892242
23403C3E03F6582056414C3F7EA6C52189121515781DF34649
4E75244225403FF6592056414C3F7EA6C52189224223409110
2D9010422E2F424192112F3D90103EB300C000F40046494E2F
2C4290102B4241921112951190116187F741524541203D209B
737E85C000F5004C464954990B8A1EF3535542CF67F6582056
414C3F7EA6C521121515781DF44F56455275244225403AF659
2056414C3F7EA6C521224223402A47D00067C000F5004F5645
52879B10F87F20504F494E54537E2F2B2D42901043412C2B51
90104341433A87F3593D209B0AF57F2058202B2D712B424190
10439B737E2F2B2D42901043412C2B51901043412D51901043
2E7141425243F6434F52523D209B737E85C000F400535542F8
4C4F57455220583F7EA6C5218932F656414C55453F8E33F84C
4F57455220593F7EA6C5218934F656414C55453F8E35F85550
50455220583F7EA6C5218936F656414C55453F8E37F8555050
455220593F7EA6C5218938F656414C55453F8E392723412622
414332264254274033292541282441433428425429403585C0
000DF2

```

450 BYTES

HP-41C Wand Digitizer Program by Jake Schwartz PPC V8 N5 P18 July 1981

Program Registers Needed: 65

Row 1 (1 - 3)



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Row 2 (3 - 7)



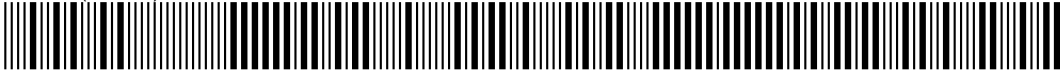
Row 3 (8 - 16)



Row 4 (16 - 26)



Row 5 (27 - 32)



Row 6 (33 - 39)



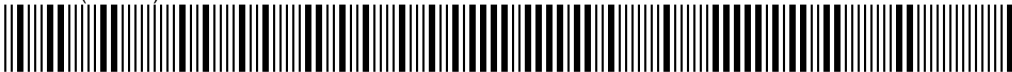
Row 7 (40 - 45)



Row 8 (46 - 56)



Row 9 (57 - 65)



Row 10 (65 - 72)



Row 11 (73 - 79)



Row 12 (79 - 83)



Row 13 (83 - 87)



Row 14 (88 - 92)



Row 15 (92 - 99)



Row 16 (100 - 105)



Row 17 (106 - 112)



Row 18 (112 - 115)



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Row 19 (115 - 125)



Row 20 (126 - 134)



Row 21 (134 - 141)



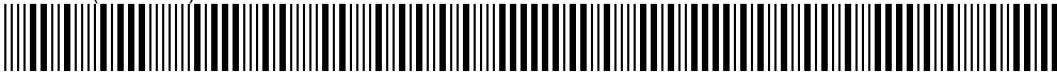
Row 22 (141 - 151)



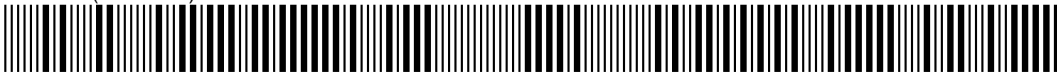
Row 23 (152 - 162)



Row 24 (163 - 169)



Row 25 (169 - 173)



Row 26 (173 - 179)



Row 27 (179 - 182)



Row 28 (182 - 188)



Row 29 (188 - 191)



Row 30 (191 - 197)



Row 31 (197 - 200)



Row 32 (201 - 206)



Row 33 (207 - 219)



Row 34 (220 - 232)



Row 35 (233 - 238)

