

HP-41C Plane Triangle Solutions by George Donaldson
PPC Calculator Journal Volume 7 No 3 P12 April 1980

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01 LBL "PLTRI\0D" ;PLTRIAngle
02 LBL E
03 5
04 LBL 13
05 CF IND X
06 DSE X
07 GTO 13
08 CF 00
09 SF 27
10 CLRG
11 9
12 STO 00
13 3
14 STO 07
15 ADV
16 ADV
17 ADV
18 STOP
19 LBL A
20 STO 01
21 "\0DA" ;AngleA
22 0
23 GTO 00
24 LBL B
25 STO 02
26 "\0DB" ;AngleB
27 1
28 GTO 00
29 LBL C
30 STO 03
31 "\0DC" ;AngleC
32 2
33 GTO 00
34 LBL a
35 STO 04
36 "a"
37 4
38 GTO 00
39 LBL b
40 STO 05
41 "b"
42 8
43 GTO 00
44 LBL c
45 STO 06
46 "c"
47 16
48 LBL 00
49 ST+ 00
50 >"= "
51 ARCL Y
52 AVIEW
53 DSE 07
54 RTN
55 ADV
56 PI
57 R-D
58 RCL 01
59 -
60 RCL 02
61 -
62 RCL 03
63 0
64 STO 07
65 X>0?
66 GTO IND 00
67 LBL 12
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68 "NO SOLUTION"
69 AVIEW
70 ADV
71 GTO E
72 LBL 14
73 LBL 15
74 LBL 16
75 17
76 GTO 06
77 LBL 18
78 LBL 19
79 LBL 20
80 21
81 SF 01
82 GTO 06
83 LBL 26
84 LBL 27
85 LBL 28
86 29
87 SF 03
88 LBL 06
89 RCL 00
90 -
91 X<>Y
92 STO IND Y
93 FS? 01
94 XEQ 04
95 FS? 03
96 XEQ 05
97 RCL 02
98 SIN
99 RCL 04
100 RCL 01
101 SIN
102 /
103 *
104 STO 05
105 LASTX
106 RCL 03
107 SIN
108 *
109 STO 06
110 FS?C 01
111 XEQ 05
112 FS?C 03
113 XEQ 04
114 LBL 01
115 2
116 .1
117 "\0DA" ;AngleA
118 XEQ IND Y
119 "\0DB" ;AngleB
120 XEQ IND Y
121 "\0DC" ;AngleC
122 XEQ IND Y
123 " a"
124 XEQ IND Y
125 " b"
126 XEQ IND Y
127 " c"
128 XEQ IND Y
129 3
130 RCL 02
131 SIN
132 RCL 06
133 *
134 "a"
135 XEQ IND Y
136 RCL 01
137 SIN
```

138 *
139 "b"
140 XEQ IND Y
141 RCL 05
142 *
143 "c"
144 XEQ IND Y
145 RCL Z
146 2
147 /
148 RCL 06
149 *
150 "A.= "
151 ARCL X
152 AVIEW
153 ADV
154 FS? 02
155 RTN
156 GTO E
157 LBL 02
158 ">=" "
159 ISG X
160 ARCL IND X
161 GTO 32
162 LBL 03
163 X<>Y
164 LASTX
165 ">H=" "
166 ARCL Z
167 LBL 32
168 AVIEW
169 FS? 55
170 RTN
171 PSE
172 PSE
173 PSE
174 PSE
175 RTN
176 LBL 04
177 XEQ 05
178 LBL 05
179 RCL 03
180 X<> 01
181 X<> 02
182 STO 03
183 RCL 06
184 X<> 04
185 X<> 05
186 STO 06
187 RTN
188 LBL 22
189 SF 01
190 LBL 29
191 SF 04
192 GTO 07
193 LBL 30
194 SF 03
195 LBL 23
196 SF 05
197 GTO 07
198 LBL 31
199 SF 03
200 LBL 21
201 SF 00
202 GTO 07
203 LBL 33
204 SF 01
205 SF 05
206 GTO 07
207 LBL 34

208 SF 00
209 SF 01
210 GTO 07
211 LBL 35
212 SF 03
213 SF 04
214 LBL 07
215 FS? 01
216 XEQ 04
217 FS? 03
218 XEQ 05
219 FS? 05
220 XEQ 08
221 FS? 00
222 XEQ 10
223 FS? 04
224 RCL 06
225 FS?C 04
226 XEQ 11
227 FS?C 03
228 XEQ 04
229 FS?C 01
230 XEQ 05
231 FS?C 05
232 GTO 01
233 FC? 02
234 GTO 01
235 XEQ 01
236 GTO IND 00
237 LBL 08
238 RCL 03
239 RCL 05
240 P-R
241 CHS
242 RCL 04
243 +
244 R-P
245 STO 06
246 X<>Y
247 STO 02
248 CHS
249 RCL 07
250 +
251 STO 01
252 RTN
253 LBL 10
254 RCL 05
255 LBL 11
256 ENTER
257 FS? 02
258 GTO 24
259 RCL 01
260 SIN
261 *
262 RCL 04
263 X<Y?
264 GTO 12
265 RCL Z
266 X<=Y?
267 GTO 17
268 XEQ 17
269 FS? 00
270 RCL 02
271 FC? 00
272 RCL 03
273 90
274 X=Y?
275 RTN
276 "2 SOL"
277 AVIEW

278 PSE
279 ADV
280 "1ST"
281 AVIEW
282 SF 02
283 RTN
284 LBL 17
285 RCL 01
286 SIN
287 *
288 RCL 04
289 /
290 ASIN
291 FS? 00
292 STO 02
293 FC? 00
294 STO 03
295 CHS
296 RCL 07
297 +
298 GTO 25
299 LBL 24
300 CF 02
301 FS? 00
302 RCL 02
303 FC? 00
304 RCL 03
305 COS
306 CHS
307 ACOS
308 FS? 00
309 STO 02
310 FC? 00
311 STO 03
312 "2ND"
313 AVIEW
314 RCL 01
315 +
316 COS
317 CHS
318 ACOS
319 LBL 25
320 FS? 00
321 STO 03
322 FC? 00
323 STO 02
324 SIN
325 RCL 04
326 *
327 RCL 01
328 SIN
329 /
330 FS? 00
331 STO 06
332 FC? 00
333 STO 05
334 RTN
335 LBL 37
336 XEQ 09
337 XEQ 05
338 XEQ 09
339 RCL 02
340 +
341 CHS
342 RCL 07
343 +
344 STO 03
345 XEQ 04
346 GTO 01
347 LBL 09

348 RCL 05
349 RCL 06
350 R-P
351 X^2
352 RCL 04
353 X^2
354 -
355 2
356 /
357 RCL 05
358 /
359 RCL 06
360 /
361 ACOS
362 STO 01
363 END

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609 BYTES

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Program Registers Needed: 87

Row 1 (1 - 3)



Row 2 (4 - 11)



Row 3 (12 - 21)



Row 4 (22 - 29)



Row 5 (29 - 36)



Row 6 (37 - 44)



Row 7 (45 - 51)



Row 8 (51 - 62)



Row 9 (63 - 68)



Row 10 (68 - 73)



Row 11 (74 - 80)



Row 12 (80 - 86)



Row 13 (87 - 94)



Row 14 (95 - 104)



Row 15 (105 - 113)



Row 16 (113 - 119)

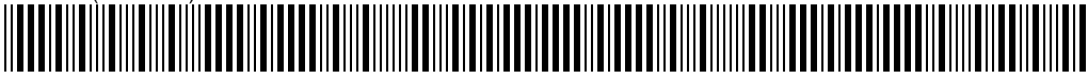


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Row 17 (119 - 124)



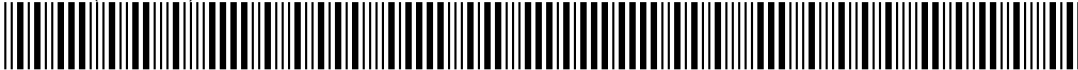
Row 18 (124 - 130)



Row 19 (131 - 140)



Row 20 (140 - 149)



Row 21 (150 - 156)



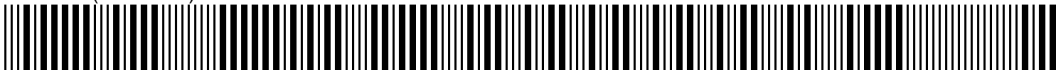
Row 22 (156 - 161)



Row 23 (161 - 167)



Row 24 (168 - 177)



Row 25 (178 - 186)



Row 26 (187 - 193)



Row 27 (194 - 200)



Row 28 (200 - 206)



Row 29 (207 - 213)



Row 30 (213 - 219)



Row 31 (219 - 225)



Row 32 (225 - 230)



Row 33 (230 - 236)



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Row 34 (236 - 248)



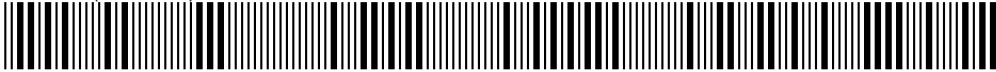
Row 35 (249 - 258)



Row 36 (259 - 267)



Row 37 (268 - 275)



Row 38 (276 - 280)



Row 39 (281 - 291)



Row 40 (291 - 299)



Row 41 (300 - 308)



Row 42 (309 - 317)



Row 43 (318 - 327)



Row 44 (328 - 336)



Row 45 (336 - 344)



Row 46 (345 - 354)



Row 47 (355 - 363)

