

HP-41C PI to 1000 Decimal Places by Ron Knapp
PPC Calculator Journal V8 N6 P69 Aug-Dec 1981

```
01 LBL "PI"      ;Fastest PI to 1000 Decimal Places
02 LBL A
03 " PI -?-"
04 AVIEW
05 CLRG
06 FIX 3
07 4
08 STO 09
09 E5
10 ST/ Y
11 STO 04
12 X^2
13 STO 05
14 X<>Y
15 427
16 +
17 STO 02
18 239
19 X^2
20 STO 07
21 LASTX
22 E2
23 *
24 STO 13
25 RDN
26 X^2
27 STO 08
28 94 E-5
29 STO 11
30 14.0139
31 STO 12
32 25
33 STO 10
34 LBL 00
35 RCL 11
36 ST+ 12
37 RCL 12
38 RND
39 STO 00
40 RCL 07
41 RCL 02
42 INT
43 ENTER
44 ST* Z
45 2
46 -
47 ST- Z
48 *
49 RCL 10
50 *
51 STO 06
52 CLX
53 STO 01
54 X<>Y
55 RCL 13
56 *
57 ENTER
58 GTO 02
59 LBL 01
60 RCL 06
61 ST/ Z
62 MOD
63 X<>Y
64 INT
65 X<>Y
66 RCL 04
67 ST* Z
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68 *
69 ENTER
70 LBL 02
71 RCL 06
72 ST/ Z
73 MOD
74 STO 03
75 RDN
76 INT
77 +
78 RCL 05
79 ST- Y
80 X<>Y
81 RCL IND 00
82 +
83 X>0?
84 ISG 01
85 LBL 03
86 X<0?
87 +
88 RCL 01
89 RCL 04
90 ST/ Z
91 *
92 ENTER
93 LBL 02
94 RCL 08
95 ST/ Z
96 MOD
97 R^
98 INT
99 LASTX
100 FRC
101 RDN
102 +
103 X<>Y
104 INT
105 RCL 04
106 ST* T
107 ST* Z
108 *
109 STO IND 00
110 RDN
111 ENTER
112 LBL 03
113 RCL 08
114 ST/ Z
115 MOD
116 X<>Y
117 INT
118 ST+ IND 00
119 RDN
120 +
121 STO 01
122 RCL 03
123 RCL 04
124 *
125 ENTER
126 ISG 00
127 GTO 01
128 DSE 02
129 GTO 00
130 4096 E-7
131 STO 08
132 1439.00006
133 STO 02
134 837 E-6
135 STO 11
136 115.115
137 STO 12
```

138 80
139 STO 13
140 5 E6
141 STO 07
142 .75
143 STO 06
144 LBL "Q"
145 RCL 11
146 ST+ 12
147 RCL 12
148 RND
149 STO 00
150 STO 03
151 SF 00
152 LBL 05
153 RCL 02
154 INT
155 ENTER
156 ENTER
157 LBL 02
158 2
159 -
160 ST* Z
161 RCL 10
162 ST* Z
163 X<>Y
164 *
165 2
166 ST- L
167 CLX
168 LASTX
169 ST* T
170 ST- Y
171 RDN
172 *
173 R^
174 ST+ T
175 X^2
176 R^
177 +
178 +
179 FC? 00
180 GTO 02
181 RCL 13
182 *
183 3
184 DSE 02
185 GTO 03
186 LBL 02
187 RCL 07
188 *
189 RCL 06
190 LBL 03
191 X<>Y
192 RDN
193 /
194 STO 01
195 CLX
196 R^
197 ENTER
198 GTO 09
199 LBL 08
200 RCL 01
201 ST/ Z
202 MOD
203 X<>Y
204 INT
205 X<>Y
206 RCL 04
207 ST* Z

208 *
209 ENTER
210 LBL 09
211 RCL 01
212 ST/ Z
213 MOD
214 RDN
215 INT
216 +
217 RCL IND 00
218 -
219 X>0?
220 GTO 02
221 DSE 00
222 LBL 03
223 DSE IND 00
224 ISG 00
225 RCL 05
226 +
227 LBL 02
228 STO IND 00
229 R^
230 RCL 04
231 *
232 ENTER
233 ISG 00
234 GTO 08
235 RCL 03
236 STO 00
237 FS?C 00
238 GTO 05
239 CLX
240 ENTER
241 DSE 02
242 FS? 00
243 GTO 04
244 LBL 11
245 X<> IND 00
246 RCL 04
247 /
248 FRC
249 LASTX
250 INT
251 RCL 08
252 *
253 FRC
254 LASTX
255 INT
256 ST+ IND 00
257 RDN
258 X<>Y
259 RCL 05
260 ST* T
261 ST* Z
262 *
263 RCL 08
264 *
265 FRC
266 X<>Y
267 LASTX
268 INT
269 R^
270 +
271 RCL 05
272 -
273 +
274 X>0?
275 ISG IND 00
276 X>0?
277 GTO 03

```
278 RCL 05
279 +
280 LBL 03
281 ISG 00
282 GTO 11
283 GTO "Q"
284 LBL 04
285 RCL 03
286 STO 00
287 RCL 10
288 X^2
289 3
290 Y^X
291 LASTX
292 *
293 STO 08
294 CLX
295 LBL 13
296 RCL IND 00
297 X<>Y
298 RCL 04
299 ST/ Z
300 *
301 ENTER
302 LBL 02
303 RCL 08
304 ST/ Z
305 MOD
306 R^
307 INT
308 LASTX
309 FRC
310 RDN
311 +
312 X<>Y
313 INT
314 RCL 04
315 ST* T
316 ST* Z
317 *
318 STO IND 00
319 RDN
320 ENTER
321 LBL 03
322 RCL 08
323 ST/ Z
324 MOD
325 X<>Y
326 INT
327 ST+ IND 00
328 RDN
329 +
330 ISG 00
331 GTO 13
332 114.013
333 STO 00
334 215
335 STO 03
336 CLX
337 LBL 06
338 RCL IND 03
339 +
340 RCL IND 00
341 -
342 0
343 X<>Y
344 X<0?
345 X>0?
346 GTO 02
347 RCL 05
```

```

348 +
349 DSE Y
350 LBL 02
351 STO IND 00
352 RDN
353 DSE 03
354 DSE 00
355 GTO 06
356 BEEP
357 RTN
358 LBL E
359 SF 21
360 CLA
361 FIX 0
362 14.114
363 STO 00
364 SF 29
365 RCL IND 00
366 XROM 29,05 ;ACX
367 ADV
368 CF 29
369 ISG 00
370 LBL 07
371 XEQ 10
372 ISG 00
373 FS? 00
374 RTN
375 " " ;1 space
376 XEQ 10
377 ADV
378 CLA
379 ISG 00
380 GTO 07
381 AVIEW
382 RTN
383 LBL 10
384 RCL IND 00
385 RCL 04
386 /
387 INT
388 LASTX
389 FRC
390 RCL 04
391 XEQ 12
392 " " ;1 space
393 XEQ 12
394 RTN
395 LBL 12
396 *
397 RCL Y
398 X=0?
399 GTO 03
400 LOG
401 INT
402 LBL 03
403 RCL 09
404 X<>Y
405 X=Y?
406 GTO 02
407 -
408 0
409 LBL 14
410 ARCL X
411 DSE Y
412 GTO 14
413 LBL 02
414 ARCL T
415 XROM 29,01 ;ACA
416 CLA
417 RTN

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418 END

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609 BYTES

HP-41C Pi to 1000 Places by Ron Knapp PPC V8 N6 P69 Aug-Dec 1981

Program Registers Needed: 87

Row 1 (1 - 3)



Row 2 (3 - 10)



Row 3 (11 - 19)



Row 4 (20 - 28)



Row 5 (28 - 33)



Row 6 (34 - 44)



Row 7 (45 - 56)



Row 8 (57 - 67)



Row 9 (67 - 78)



Row 10 (79 - 88)



Row 11 (89 - 99)



Row 12 (100 - 109)



Row 13 (110 - 120)



Row 14 (121 - 129)



Row 15 (130 - 132)



Row 16 (132 - 135)



HP-41C Pi to 1000 Places by Ron Knapp PPC V8 N6 P69 Aug-Dec 1981

Row 17 (136 - 140)



Row 18 (140 - 146)



Row 19 (146 - 157)



Row 20 (158 - 167)



Row 21 (168 - 177)



Row 22 (178 - 186)



Row 23 (187 - 198)



Row 24 (199 - 209)



Row 25 (210 - 220)



Row 26 (220 - 228)



Row 27 (229 - 238)



Row 28 (238 - 246)



Row 29 (247 - 258)



Row 30 (259 - 269)



Row 31 (270 - 280)



Row 32 (281 - 289)



Row 33 (290 - 300)



HP-41C Pi to 1000 Places by Ron Knapp PPC V8 N6 P69 Aug-Dec 1981

Row 34 (301 - 312)



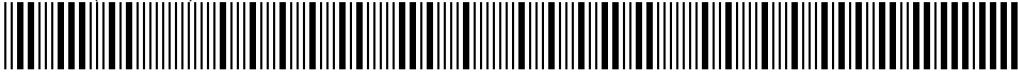
Row 35 (313 - 322)



Row 36 (323 - 331)



Row 37 (332 - 336)



Row 38 (337 - 346)



Row 39 (347 - 355)



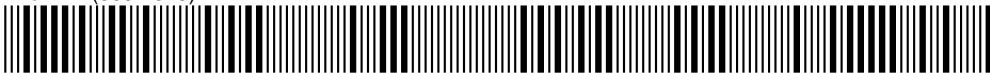
Row 40 (355 - 362)



Row 41 (362 - 368)



Row 42 (369 - 375)



Row 43 (376 - 384)



Row 44 (384 - 393)



Row 45 (393 - 402)



Row 46 (403 - 412)



Row 47 (412 - 418)

