

HP-41C PPC ROM General Math 2 by PPC ROM Authors  
PPC Calculator Journal Vol 7 N8 P11 October 1980

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01 LBL "FRAC"      ;Fractional Arithmetic Package
02 XEQ IND 06      ;by John Kennedy (918)
03 LBL 02
04 CHS
05 LBL 01
06 ST* T
07 X<> Z
08 *
09 ST+ Z
10 X<> L
11 *
12 GTO 05
13 LBL 04
14 X<>Y
15 LBL 03
16 ST* Z
17 X<> T
18 *
19 X<>Y
20 LBL 05
21 RCL Y
22 RCL Y
23 XEQ "GCD"       ;Greatest Common Divisor (Line 32)
24 ST/ Z
25 /
26 RTN
27 LBL 06
28 XEQ 05
29 XEQ "/R"        ;Quotient and Remainder (V7N8P8 /R Line 1)
30 LASTX
31 RTN
32 LBL "GCD"       ;Greatest Common Divisor
33 MOD             ;by John Kennedy (918) V6N5P31
34 LASTX
35 X<>Y
36 X#0?
37 GTO "GCD"       ;Greatest Common Divisor (Line 32)
38 +
39 RTN
40 LBL "RNG"       ;Random Number Generator
41 RCL IND X       ;Ref: HP-34C Applications Booklet p. 57
42 9821
43 *
44 .211327
45 +
46 FRC
47 STO IND Y
48 RTN
49 LBL "DECFRC"    ;Decimal to Fraction
50 STO 07          ;by John Kennedy (918) V4N6P20,P61A
51 INT
52 0
53 STO 08
54 1
55 STO 09
56 RCL 07
57 R^
58 X=Y?
59 GTO 08
60 ST- Y
61 LBL 07
62 RDN
63 1/X
64 ENTER
65 INT
66 -
67 RCL 08
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68 RCL 09
69 STO 08
70 LASTX
71 *
72 +
73 STO 09
74 RCL 07
75 *
76 FIX 0
77 RND
78 STO Z
79 RCL 09
80 /
81 RCL 07
82 -
83 FIX IND 06
84 RND
85 X#0?
86 GTO 07
87 RCL Z
88 LBL 08
89 RCL 09
90 SIGN
91 ST* 09
92 *
93 RCL 09
94 RTN
95 LBL "PRIME" ;Next Prime Divisor
96 RCL Y ;by John Kennedy (918) V7N3P6
97 RCL Y
98 /
99 X<Y?
100 GTO 09
101 FRC
102 X=0?
103 GTO 10
104 CLX
105 2
106 X=Y?
107 DSE X
108 +
109 GTO "PRIME" ;Next Prime Divisor (Line 95)
110 LBL 09
111 RDN
112 LBL 10
113 RDN
114 RTN
115 LBL "INTG" ;Integration Routine
116 RCL 07 ;by Phil Fraundorf (1025) and
117 RCL 06 ;Valentin Albillo (4747) V7N6P10
118 STO 12
119 -
120 RCL 08
121 /
122 STO 13
123 2
124 /
125 ST+ 12
126 .6
127 SQRT
128 *
129 STO 11
130 CLX
131 STO 10
132 LBL 11
133 RCL 12
134 RCL 11
135 -
136 XEQ IND 09
137 5

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138 *
139 ST+ 10
140 RCL 12
141 XEQ IND 09
142 8
143 *
144 ST+ 10
145 RCL 12
146 RCL 11
147 +
148 XEQ IND 09
149 5
150 *
151 ST+ 10
152 RCL 13
153 ST+ 12
154 DSE 08
155 GTO 11
156 RCL 10
157 *
158 18
159 /
160 RTN
161 END

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0110C000F50046524143AE860354029470CE71429271CE7442
B6000571049471CE70427106907290721EF347434495714385
07E000051EF22F527685C000F4004743444B7671631DF34743
444085C000F400524E4790F319181211421A12111113121740
6991F285C000F700444543465243376810381139277478B900
93720875608368412829387642403927429C006E9171294327
419C866E63B800907109297A9409422985C000F6005052494D
45907290724344BA006967BB007712789773401DF55052494D
450A750B7585C000F500494E544727263C4128433D1243920C
1A1652423B773A0C2C2B41AE891542920A2CAE891842920A2C
2B40AE891542920A2D920C9708BC002A4211184385C0000D5F

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272 BYTES

HP-41C PPC ROM Gen. Math 2 by PPC ROM Authors PPC V7 N8 P11 Oct 1980

Program Registers Needed: 39

Row 1 (1 - 5)



Row 2 (6 - 13)



Row 3 (14 - 22)



Row 4 (23 - 28)



Row 5 (29 - 32)



Row 6 (33 - 40)



Row 7 (40 - 44)



Row 8 (44 - 49)



Row 9 (49 - 54)



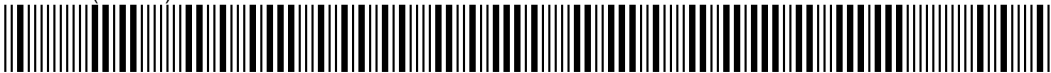
Row 10 (55 - 65)



Row 11 (66 - 77)



Row 12 (78 - 87)



Row 13 (87 - 95)



Row 14 (95 - 100)



Row 15 (101 - 109)



Row 16 (109 - 115)



Row 17 (115 - 124)



Row 18 (125 - 135)



Row 19 (136 - 144)



Row 20 (145 - 154)



Row 21 (154 - 161)

