

HP-41C Linear Equations by Valentin Albillo
Solve by Gauss-Seidel Overrelaxation Method
PPC Calculator Journal V7 N4 Pg 22 May 1980

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01 LBL "?" ;Linear Equations by Gauss-Seidel Method
02 FIX 0
03 CF 29
04 CLRG
05 "N=?"
06 PROMPT
07 STO 00
08 X^2
09 LASTX
10 ST+ X
11 +
12 7
13 +
14 STO 06
15 1
16 -
17 RCL 00
18 2
19 +
20 1 E5
21 /
22 +
23 STO 07
24 SF 25
25 RCL IND 06
26 FS?C 25
27 GTO 00
28 "SIZE "
29 RCL 06
30 1
31 +
32 ARCL X
33 PROMPT
34 LBL 00
35 RCL 00
36 1 E3
37 /
38 1
39 +
40 STO 02
41 STO 03
42 RCL 00
43 8
44 +
45 STO 04
46 LBL 01
47 "A"
48 ARCL 02
49 ">","
50 ARCL 03
51 ">=?"
52 PROMPT
53 STO IND 04
54 ISG 04
55 X<>Y
56 ISG 03
57 GTO 01
58 "B"
59 ARCL 02
60 ">=?"
61 PROMPT
62 STO IND 04
63 ISG 04
64 X<>Y
65 RCL 00
66 ST- 03
```

```
67 ISG 02
68 GTO 01
69 "W=?"
70 PROMPT
71 STO 01
72 "FIX=?"
73 PROMPT
74 STO N
75 FIX IND X
76 RCL 00
77 7.007
78 +
79 STO M
80 CF 00
81 LBL 02
82 RCL 07
83 STO 04
84 RCL 06
85 STO 02
86 RCL M
87 STO 05
88 LBL 04
89 RCL IND 02
90 DSE 02
91 LBL 03
92 RCL IND 02
93 RCL IND Z
94 *
95 -
96 DSE 02
97 DSE Y
98 GTO 03
99 RCL IND 04
100 /
101 RCL 01
102 *
103 ST+ IND 05
104 FS? 04
105 VIEW IND 05
106 RND
107 X#0?
108 SF 00
109 RCL M
110 DSE 04
111 DSE 05
112 GTO 04
113 FS?C 00
114 GTO 02
115 RCL N
116 8
117 LBL 05
118 "X"
119 FIX 0
120 ARCL 03
121 >="="
122 FIX IND Y
123 ARCL IND X
124 PROMPT
125 ISG X
126 LBL 06
127 ISG 03
128 GTO 05
129 END
```

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7535059082970204908290F1424197029772B4009084432142
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B9

223 BYTES

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Program Registers Needed: 32

Row 1 (1 - 5)



Row 2 (5 - 16)



Row 3 (17 - 25)



Row 4 (26 - 31)



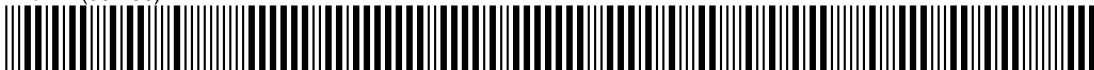
Row 5 (32 - 41)



Row 6 (42 - 50)



Row 7 (50 - 56)



Row 8 (57 - 62)



Row 9 (63 - 69)



Row 10 (69 - 75)



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Row 11 (75 - 81)



Row 12 (82 - 91)



Row 13 (92 - 99)



Row 14 (99 - 108)



Row 15 (108 - 114)



Row 16 (115 - 121)



Row 17 (122 - 129)



Row 18 (129)

