

HP-41C Curve Fit / Best Function by Gary M. Tenzer  
PPC Calculator Journal Vol 7 No 2 P21 Feb-Mar 1980

01 LBL "CFIT" ;Curve Fit/Best Function

02 LBL e

03 SF 25

04 RCL 22

05 " SIZE=23"

06 FC?C 25

07 PROMPT

08 SF 12

09 " -AUTO-"

10 AVIEW

11 "-CURVE FIT-"

12 AVIEW

13 ADV

14 CF 05

15 CF 10

16 CF 12

17 CLRG

18 1

19 STO 19

20 XEQ c

21 GTO 07

22 LBL c

23 2

24 " DIGITS ?"

25 PROMPT

26 STO 22

27 FIX IND 22

28 RTN

29 LBL A

30 CF 10

31 LBL 06

32 STO 01

33 X<>Y

34 STO 02

35 "X"

36 CF 29

37 FIX 0

38 FC? 10

39 ARCL 19

40 SF 29

41 FIX IND 22

42 ">" = "

43 ARCL X

44 AVIEW

45 FC? 21

46 PSE

47 "Y"

48 CF 29

49 FIX 0

50 FC? 10

51 ARCL 19

52 FIX IND 22

53 ">" = "

54 ARCL Y

55 AVIEW

56 SF 12

57 " -----"

58 FS? 10

59 AVIEW

60 CF 12

61 ADV

62 SREG 14 ;SigmaREG

63 FC? 10

64 S+ ;Sigma+

65 FS? 10

66 S- ;Sigma-

67 RDN

```

68 RCL 02
69 LN
70 *
71 FS? 10
72 CHS
73 ST+ 03
74 LASTX
75 RCL 01
76 LN
77 X<>Y
78 SREG 04 ;SigmaREG
79 FC? 10
80 S+ ;Sigma+
81 FS? 10
82 S- ;Sigma-
83 RDN
84 RCL 02
85 *
86 FS? 10
87 CHS
88 ST+ 13
89 LBL 07
90 FIX 0
91 CF 29
92 CLA
93 RCL 19
94 ARCL X
95 >": X ENTER Y"
96 SF 29
97 TONE 09
98 FIX IND 22
99 PROMPT
100 RCL 02
101 RCL 01
102 LBL a
103 SF 10
104 SF 12
105 " *DELETE*"
106 AVIEW
107 CF 12
108 GTO 06
109 LBL B
110 4
111 STO 21
112 CF 09
113 LBL 00
114 XEQ IND 21
115 DSE 21
116 GTO 00
117 RCL 20
118 LBL C
119 STO 21
120 SF 09
121 XEQ IND 21
122 ADV
123 LBL E
124 RCL 20
125 FS?C 09
126 RCL 21
127 " CURVE: "
128 FIX 0
129 CF 29
130 ARCL X
131 SF 29
132 FIX IND 22
133 SF 12
134 AVIEW
135 FC? 21
136 PSE
137 1

```

```
138 X=Y?
139 SF 05
140 "LINEAR FIT"
141 FS?C 05
142 GTO 05
143 RDN
144 2
145 X=Y?
146 SF 05
147 "EXPONENTIAL"
148 FS?C 05
149 GTO 05
150 RDN
151 3
152 X=Y?
153 SF 05
154 "LOGARITHMIC"
155 FS?C 05
156 GTO 05
157 RDN
158 "POWER CURVE"
159 LBL 05
160 RCL 10
161 FS? 07
162 E^X
163 RCL 11
164 RCL 12
165 AVIEW
166 FC? 21
167 PSE
168 CF 12
169 SF 13
170 ADV
171 " A = "
172 ARCL Z
173 AVIEW
174 FC? 21
175 PSE
176 " B = "
177 ARCL Y
178 AVIEW
179 FC? 21
180 PSE
181 " R^2 = "
182 ARCL X
183 AVIEW
184 FC? 21
185 PSE
186 RCL 11
187 X<0?
188 SF 05
189 RCL 12
190 SQRT
191 FS?C 05
192 CHS
193 " R = "
194 ARCL X
195 AVIEW
196 CF 13
197 ADV
198 ADV
199 RTN
200 LBL 01
201 CF 07
202 CF 08
203 RCL 17
204 STO 00
205 RCL 15
206 RCL 18
207 RCL 14
```

208 RCL 16  
209 GTO 08  
210 LBL 02  
211 SF 07  
212 CF 08  
213 RCL 07  
214 STO 00  
215 RCL 15  
216 RCL 13  
217 RCL 14  
218 RCL 06  
219 GTO 08  
220 LBL 03  
221 CF 07  
222 SF 08  
223 RCL 17  
224 STO 00  
225 RCL 05  
226 RCL 03  
227 RCL 04  
228 RCL 16  
229 GTO 08  
230 LBL 04  
231 SF 07  
232 SF 08  
233 RCL 07  
234 STO 00  
235 RCL 05  
236 RCL 08  
237 RCL 04  
238 RCL 06  
239 LBL 08  
240 STO 01  
241 X<>Y  
242 STO 02  
243 \*  
244 RCL 09  
245 /  
246 -  
247 X<>Y  
248 RCL 02  
249 X^2  
250 RCL 09  
251 /  
252 -  
253 /  
254 STO 11  
255 ST\* 02  
256 \*  
257 RCL 00  
258 RCL 01  
259 X^2  
260 RCL 09  
261 /  
262 -  
263 /  
264 FS? 09  
265 STO 12  
266 RCL 12  
267 X<=Y?  
268 GTO 10  
269 GTO 09  
270 LBL 10  
271 X<>Y  
272 STO 12  
273 RCL 21  
274 STO 20  
275 LBL 09  
276 RCL 01  
277 RCL 02

```
278 -
279 RCL 09
280 /
281 STO 10
282 RTN
283 LBL D
284 "X= "
285 SF 16
286 FC? 21
287 GTO 11
288 LBL 12
289 ARCL X
290 "> "
291 XROM 29,01 ;ACA
292 125
293 SF 12
294 XROM 29,02 ;ACCHR
295 RDN
296 CF 12
297 LBL 11
298 FC?C 16
299 RTN
300 FS? 08
301 LN
302 RCL 11
303 *
304 RCL 10
305 +
306 FS? 07
307 E^X
308 " Y= "
309 LBL 14
310 FIX IND 22
311 ARCL X
312 FC? 21
313 PROMPT
314 XROM 29,01 ;ACA
315 XROM 29,10 ;PRBUF
316 PROMPT
317 LBL d
318 "Y= "
319 FC? 21
320 GTO 13
321 XEQ 12
322 LBL 13
323 FS? 07
324 LN
325 RCL 10
326 -
327 RCL 11
328 /
329 FS? 08
330 E^X
331 " X= "
332 GTO 14
333 LBL b
334 22
335 XROM 30,08 ;WDTAX
336 END
```

02A0C000F50043464954CF7FA8199016F9202053495A453D32  
33AB198EA80CF820202D4155544F2D7EFB2D43555256452046  
49542D7E8FA905A90AA90C8A119113E0007DB800CF7D12FA20  
20444947495453203F8E91169C9685CF66A90A07317132F158  
A91D9C00AD0A9B13A81D9C96F47F203D209B737EAD1589F159  
A91D9C00AD0A9B139C96F47F203D209B727EA80CF92020202D  
2D2D2D2D2DAC0A7EA90C8F990EAD0A47AC0A4875225042AC0A  
549203762150719904AD0A47AC0A48752242AC0A54920D089C  
00A91D8790139B73FC7F3A205820454E5445522059A81D9F09  
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958FCF6A9014AA099015F82043555256453A209C00A91D9B73  
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751378A805FB4C4F4741524954484D4943AA05B60075FB504F  
574552204355525645062AAC07552B2C7EAD1589A90CA80D8F  
F720412020203D209B717EAD1589F720422020203D209B727E  
AD1589F720525E32203D209B737EAD15892B66A8052C52AA05  
54F720522020203D209B737EA90D8F8F8502A907A908901130  
2F90122E9010B90003A807A90827302F2D2E26B90004A907A8  
089011302523249010B90005A807A808273025282426093171  
3242294341712251294341433B94024220215129434143AC09  
3C2C46BB00BA000B713C901591140A21224129433A85CF69F3  
583D20A810AD15BC000D9B73F27F20A741111215A80CA74275  
A90C0CAB1085AC08502B422A40AC0755F420593D200F9C969B  
73AD158EA741A74A8ECF7EF3593D20AD15BE00E0000C0EAC07  
502A412B43AC0855F420583D20BF00CF7C1212A788C0000D53

672 BYTES

# HP-41C Curve Fit/Best Function by Gary M. Tenzer PPC V7N2P21 Feb-Mar 1980

Program Registers Needed: 96

Row 1 (1 - 4)



Row 2 (4 - 6)



Row 3 (7 - 10)



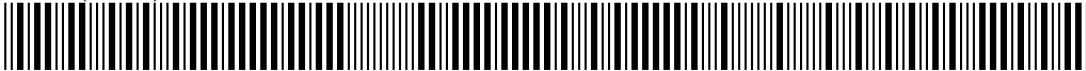
Row 4 (11 - 12)



Row 5 (13 - 20)



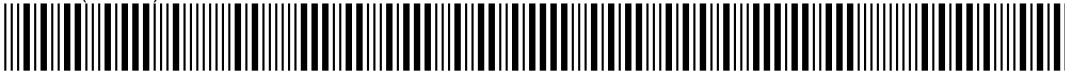
Row 6 (20 - 24)



Row 7 (24 - 30)



Row 8 (30 - 38)



Row 9 (39 - 43)



Row 10 (44 - 51)



Row 11 (51 - 56)



Row 12 (57 - 59)



Row 13 (60 - 68)



Row 14 (69 - 78)



Row 15 (79 - 88)



Row 16 (88 - 95)



# HP-41C Curve Fit/Best Function by Gary M. Tenzer PPC V7N2P21 Feb-Mar 1980

Row 17 (95 - 96)



Row 18 (97 - 104)



Row 19 (105 - 107)



Row 20 (107 - 114)



Row 21 (115 - 121)



Row 22 (121 - 127)



Row 23 (127 - 131)



Row 24 (131 - 139)



Row 25 (140 - 141)



Row 26 (142 - 147)



Row 27 (147 - 152)



Row 28 (153 - 154)



Row 29 (154 - 158)



Row 30 (158 - 165)



Row 31 (166 - 171)



Row 32 (171 - 176)



Row 33 (176 - 181)



# HP-41C Curve Fit/Best Function by Gary M. Tenzer PPC V7N2P21 Feb-Mar 1980

Row 34 (181 - 187)



Row 35 (188 - 193)



Row 36 (193 - 201)



Row 37 (202 - 209)



Row 38 (210 - 219)



Row 39 (220 - 228)



Row 40 (229 - 238)



Row 41 (239 - 251)



Row 42 (252 - 263)



Row 43 (264 - 273)



Row 44 (273 - 283)



Row 45 (284 - 289)



Row 46 (290 - 295)



Row 47 (296 - 305)



Row 48 (306 - 311)



Row 49 (312 - 318)



Row 50 (318 - 325)



# HP-41C Curve Fit/Best Function by Gary M. Tenzer PPC V7N2P21 Feb-Mar 1980

Row 51 (326 - 332)



Row 52 (333 - 336)

