

516-81
JES
8/4/74

OPTION CHANGING IN GPLOT

A mechanism has been added to GPLOT(516-77) to enable the user to change the ITYCUR and URSUBR options between curves. This is useful in multiple-curve plots, in which it is desirable to present different curves with different plotting options.

Four possible options are available. They are:

- (1) Do nothing.
- (2) Change the value of ITYCUR.
- (3) Change the URSUBR.
- (4) Change the URSUBR and the value of ITYCUR.

Changes are made by putting the new values for the above mentioned variables in parentheses, and placing the parentheses after the last line of data from the previous curve. The format for the variables is:

(ITYCUR)

(URSUBR)

(ITYCUR,URSUBR)

If the URSUBR is left blank, the present value of URSUBR(as defined on the first line of the file) is erased. If ITYCUR is left out, the present value is used.

An example in which ITYCUR is changed follows:

```

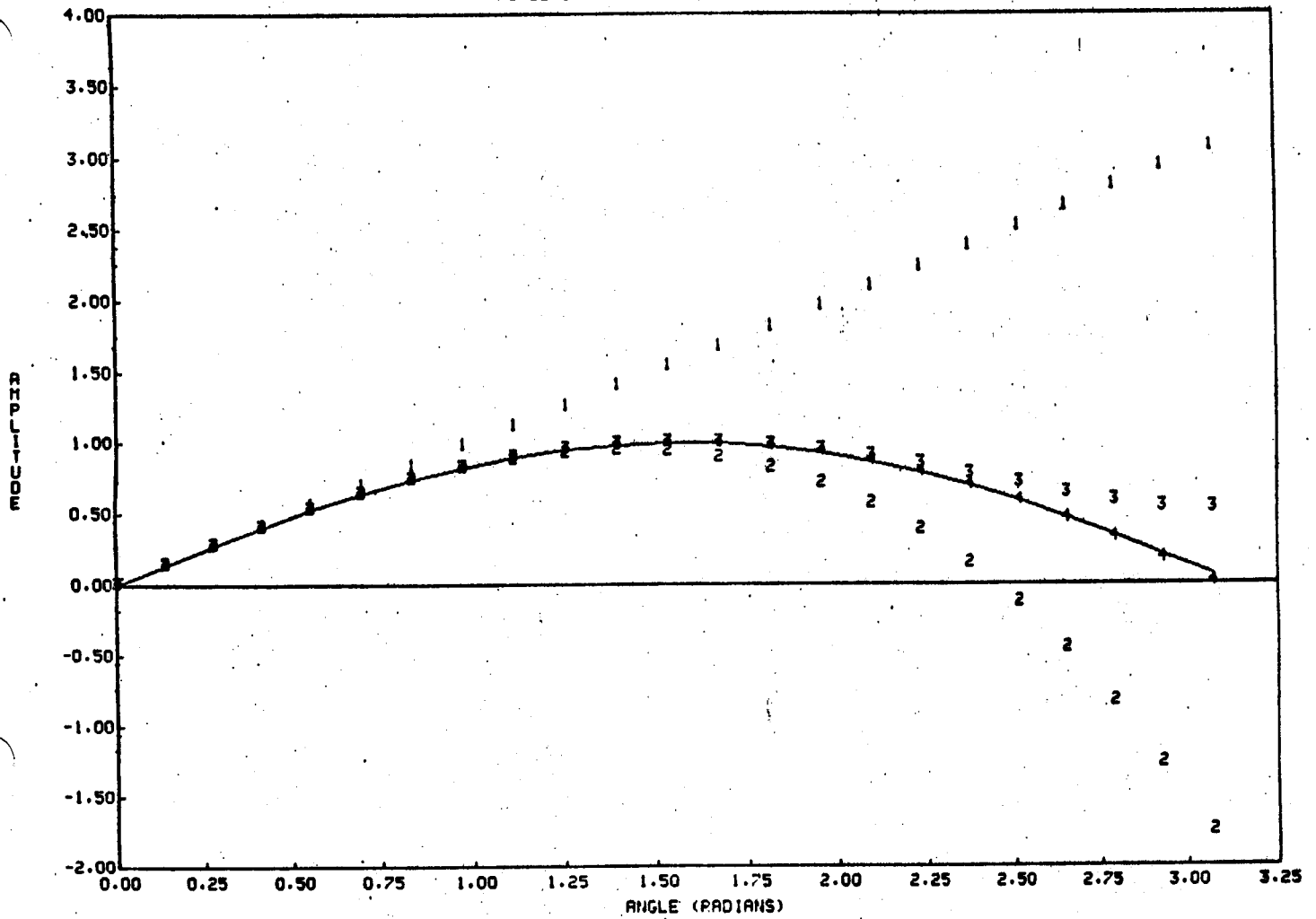
001 1 1 5 1 1 1 2 2 1 1 -2 4 1 1 1 1
002 APPROXIMATION OF A SINE WAVE BY A MCLAURIN SERIES
003 NUMBERS ARE NUMBER OF TERMS EVALUATED
004 AMPLITUDE
005 ANGLE (RADIAN)
006 5
007 23
008 0.00000000E+00 0.00000000E+00
009 0.13962632E+00 0.13917300E+00
010 0.27925265E+00 0.27563715E+00
011 0.41887897E+00 0.40673649E+00
012 0.55850530E+00 0.52991903E+00
013 0.69813156E+00 0.64278722E+00
014 0.83775795E+00 0.74314451E+00
015 0.97738421E+00 0.82903707E+00
016 0.11170106E+01 0.89879358E+00
017 0.12566369E+01 0.95105612E+00
018 0.13962631E+01 0.98480749E+00
019 0.15358894E+01 0.99939060E+00
020 0.16755159E+01 0.99452174E+00
021 0.18151422E+01 0.97029555E+00
022 0.19547684E+01 0.92718399E+00
023 0.20943947E+01 0.86602569E+00
024 0.22340212E+01 0.78801107E+00
025 0.23736472E+01 0.69465911E+00
026 0.25132737E+01 0.58778584E+00
027 0.26528997E+01 0.46947265E+00
028 0.27925262E+01 0.34202129E+00
029 0.29321527E+01 0.20791250E+00
030 0.30717788E+01 0.69757760E-01
031 (4)
032 1
033 23
034 0.00000000E+00 0.00000000E+00
035 0.13962632E+00 0.13962632E+00
036 0.27925265E+00 0.27925265E+00
037 0.41887897E+00 0.41887897E+00
038 0.55850530E+00 0.55850530E+00
039 0.69813156E+00 0.69813156E+00
040 0.83775795E+00 0.83775795E+00
041 0.97738421E+00 0.97738421E+00
042 0.11170106E+01 0.11170106E+01
043 0.12566369E+01 0.12566369E+01
044 0.13962631E+01 0.13962631E+01
045 0.15358894E+01 0.15358894E+01
046 0.16755159E+01 0.16755159E+01
047 0.18151422E+01 0.18151422E+01
048 0.19547684E+01 0.19547684E+01
049 0.20943947E+01 0.20943947E+01
050 0.22340212E+01 0.22340212E+01
051 0.23736472E+01 0.23736472E+01
052 0.25132737E+01 0.25132737E+01

```

053	0.26528997E+01	0.26528997E+01
054	0.27925262E+01	0.27925262E+01
055	0.29321527E+01	0.29321527E+01
056	0.30717788E+01	0.30717788E+01
057	2	
058	23	
059	0.00000000E+00	0.00000000E+00
060	0.13962632E+00	0.13917261E+00
061	0.27925265E+00	0.27562314E+00
062	0.41887897E+00	0.40662956E+00
063	0.55850530E+00	0.52946961E+00
064	0.69813156E+00	0.64142144E+00
065	0.83775795E+00	0.73976278E+00
066	0.97738421E+00	0.82177162E+00
067	0.11170106E+01	0.88472593E+00
068	0.12566369E+01	0.92590344E+00
069	0.13962631E+01	0.94258225E+00
070	0.15358894E+01	0.93204021E+00
071	0.16755159E+01	0.89155531E+00
072	0.18151422E+01	0.81840515E+00
073	0.19547684E+01	0.70986795E+00
074	0.20943947E+01	0.56322169E+00
075	0.22340212E+01	0.37574387E+00
076	0.23736472E+01	0.14471340E+00
077	0.25132737E+01	-0.13259363E+00
078	0.26528997E+01	-0.45889616E+00
079	0.27925262E+01	-0.83692074E+00
080	0.29321527E+01	-0.12693863E+01
081	0.30717788E+01	-0.17590146E+01
082	3	
083	23	
084	0.00000000E+00	0.00000000E+00
085	0.13962632E+00	0.13917303E+00
086	0.27925265E+00	0.27563727E+00
087	0.41887897E+00	0.40673697E+00
088	0.55850530E+00	0.52992237E+00
089	0.69813156E+00	0.64280331E+00
090	0.83775795E+00	0.74320161E+00
091	0.97738421E+00	0.82920420E+00
092	0.11170106E+01	0.89921713E+00
093	0.12566369E+01	0.95201707E+00
094	0.13962631E+01	0.98680592E+00
095	0.15358894E+01	0.10032628E+01
096	0.16755159E+01	0.10015979E+01
097	0.18151422E+01	0.98260462E+00
098	0.19547684E+01	0.94771349E+00
099	0.20943947E+01	0.89904523E+00
100	0.22340212E+01	0.83946300E+00
101	0.23736472E+01	0.77262640E+00
102	0.25132737E+01	0.70304310E+00
103	0.26528997E+01	0.63012533E+00
104	0.27925262E+01	0.57823730E+00

105	0.29321527E+01	0.53675413E+00
106	0.30717788E+01	0.52011061E+00
107	4	
108	23	
109	0.00000000E+00	0.00000000E+00
110	0.13962632E+00	0.13917303E+00
111	0.27925265E+00	0.27563721E+00
112	0.41887897E+00	0.40673649E+00
113	0.55850530E+00	0.52991891E+00
114	0.69813156E+00	0.64278722E+00
115	0.83775795E+00	0.74314404E+00
116	0.97738421E+00	0.82903504E+00
117	0.11170106E+01	0.89878654E+00
118	0.12566369E+01	0.95103514E+00
119	0.13962631E+01	0.98475313E+00
120	0.15358894E+01	0.99926245E+00
121	0.16755159E+01	0.99424243E+00
122	0.18151422E+01	0.96972370E+00
123	0.19547684E+01	0.92607450E+00
124	0.20943947E+01	0.86397171E+00
125	0.22340212E+01	0.78435964E+00
126	0.23736472E+01	0.68839335E+00
127	0.25132737E+01	0.57736868E+00
128	0.26528997E+01	0.45263427E+00
129	0.27925262E+01	0.31548285E+00
130	0.29321527E+01	0.16703206E+00
131	0.30717788E+01	0.80767870E-02

APPROXIMATION OF A SINE WAVE BY A McLAURIN SERIES
NUMBERS ARE NUMBER OF TERMS EVALUATED



PL0T 1

REHIND NEXT DONE STARE