

[illegible]


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890 LOCATE 27,20:PRINT"I'origine et >NQ
de"
900 LOCATE 27,20:PRINT"I'extrémité >EG
de ce segment."
910 LOCATE 54,16:PRINT"- Une grande >BK
ur A est dite"
920 LOCATE 55,17:PRINT""fonction" d >ET
'une grandeur"
930 LOCATE 55,18:PRINT"B quand à ch >ZZ
aque valeur"
940 LOCATE 55,19:PRINT"de B corresp >UT
ond une"
950 LOCATE 55,20:PRINT"valeur déter >AB
minée de A."
960 GOSUB 1320 >QC
970 GOSUB 1930:GOSUB 640 >TL
980 LOCATE 27,3:PRINT"Repère orthon >UV
ormé:"
990 LOCATE 27,5:PRINT"-Axe des ordo >ZA
nnées y'y"
1000 LOCATE 27,7:PRINT"-Axe des abs >ZW
cisses x'x"
1010 LOCATE 57,3:PRINT"F(x)= ax + b >ED
"
1020 LOCATE 55,5:PRINT"Si a>0 F(x) >KV
est"
1030 LOCATE 65,6:PRINT"croissante." >JG
"
1040 LOCATE 55,7:PRINT"Si a<0 F(x) >KX
est"
1050 LOCATE 65,8:PRINT"décroissante >MG
."
1060 LOCATE 55,9:PRINT"Si a=0 F(x) >KC
est"
1070 LOCATE 65,10:PRINT"constante." >HZ
"
1080 LOCATE 27,16:PRINT" - Théorème >LB
1 :"
1090 LOCATE 27,18:PRINT" La courbe >FG
représentative"
1100 LOCATE 27,19:PRINT"de la fonct >BA
ion y=ax est"
1110 LOCATE 27,20:PRINT"une droite >DQ
qui passe par"
1120 LOCATE 27,21:PRINT"I'origine." >GT
"
1130 LOCATE 55,16:PRINT" - Théorème >MW
e 2 :"
1140 LOCATE 55,18:PRINT" La courbe >FD
représentative"
1150 LOCATE 55,19:PRINT"de la fonct >ZB
ion y=ax + b"
1160 LOCATE 55,20:PRINT"est une par >ZD

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allèle à la"
1170 LOCATE 55,21:PRINT"droite y=ax >EG
,coupant l'axe"
1180 LOCATE 55,22:PRINT"des y en un >UX
point B"
1190 LOCATE 55,23:PRINT"d'ordonnée >LP
b."
1200 GOSUB 1320 >WB
1210 IF j=1 THEN RETURN >RU
1220 CLS:GOSUB 1930:GOSUB 640 >XK
1230 LOCATE 27,3:PRINT"Domaine de d >YK
éfinition"
1240 LOCATE 27,4:PRINT"===== >PT
=====
1250 LOCATE 29,7:PRINT"F(x)= ax";CH >UB
R$(169);" + b"
1260 LOCATE 55,3:PRINT"Si a>0 : " >AB
1270 LOCATE 58,8:PRINT TV$;TV1$;TV2 >EY
$
1280 LOCATE 60,9:PRINT"+";CHR$(9);C >TJ
HR$(9);CHR$(9);CHR$(241);" ";"b";"
";CHR$(240);" + "
1290 LOCATE 55,16:PRINT"Si a<0 : " >BL
1300 LOCATE 58,20:PRINT TV$;TV1$;TV >FT
2$
1310 LOCATE 60,21:PRINT"+";CHR$(9); >VE
CHR$(9);CHR$(9);CHR$(240);" ";"b";"
";CHR$(241);" - "
1320 FOR I=1 TO 1500:NEXT I >UK
1330 LOCATE 4,25:PRINT" ESPACE9 pou >QE
r suite":CALL &B06:RETURN
1340 ' >YA
1350 '** FONCTION f(x)=ax + b >YB
1360 ' >YC
1370 j=1:GOSUB 550:GOSUB 1930 >XX
1380 ' >YE
1390 '== Affichage des variables >YF
1400 ' >XH
1410 WINDOW#1,4,17,2,4:PAPER#1,1:PE >QE
N#1,0:CLS#1
1420 LOCATE#1,2,2:PRINT#1,"F(x)= ax >HX
+b"
1430 LOCATE 4,6:INPUT"> a= ",a >ZQ
1440 LOCATE 4,6:PRINT" " >YP
1450 LOCATE 4,6:INPUT"> b= ",b >ZV
1460 IF a=0 THEN LOCATE 4,6:PRINT"F >MN
(x) -> constante":GOTO 1480
1470 IF a>0 THEN LOCATE 4,6:PRINT"F >VB
(x) -> Croissante"ELSE LOCATE 4,6:P
RINT"F(x) -> Décroissante"
1480 WINDOW#4,4,22,8,15:PAPER#4,1:P >RZ
EN#4,0:CLS#4
1490 IF b<0 THEN LOCATE#4,2,2:PRINT >CP

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#4,"y =" ;a;CHR$(8);"x -";ABS(b):GOT
0 1520
1500 IF b=0 THEN LOCATE#4,2,2:PRINT >PB
#4,"y =" ;a;CHR$(8);"x":GOTO 1520
1510 LOCATE#4,2,2:PRINT#4,"y =" ;a;C >UD
HR$(8);"x +";b
1520 GOSUB 2080 >XA
1530 ' >YB
1540 '== Calcul des coordonnees >YC
1550 ' >YD
1560 IF a=0 AND b>=0 THEN LOCATE 6, >CR
11:PRINT" ";CHR$(127);" x => y =" ;b
;;GOTO 1580 ELSE GOTO 1600
1570 IF a=0 AND b<0 THEN LOCATE 6,1 >CM
1:PRINT" ";CHR$(127);" x => y = " ;b
;;GOTO 1580 ELSE GOTO 1600
1580 IF b<0 OR b>0 THEN LOCATE 5,13 >MN
:PRINT"L'équation ax+b=0":LOCATE 5,
14:PRINT" est impossible! ":GOTO 17
60
1590 IF b=0 THEN LOCATE 5,13:PRINT" >DJ
L'équation ax+b=0":LOCATE 5,14:PRIN
T"est indéterminée!":GOTO 1760
1600 LOCATE 5,12:PRINT" Si x= >LD
":LOCATE 8,14:PRINT" y= "
1610 LOCATE 5,12:INPUT" Si x= ",x3 >CW
1620 IF x3>0 THEN LOCATE 5,12:PRINT >DA
" Si x= +";x3:GOTO 1640
1630 IF x3<0 THEN LOCATE 5,12:PRINT >YW
" Si x= -";ABS(x3)
1640 y3=(a*x3)+b >FB
1650 IF y3>0 THEN LOCATE 8,14:PRINT >ZY
" y= +";y3:GOTO 1710
1660 IF y3<0 THEN LOCATE 8,14:PRINT >UJ
" y= -";ABS(y3)
1670 IF y3=0 THEN LOCATE 8,14:PRINT >JB
" y= 0"
1680 ' >YH
1690 '--- Trace des coordonnees >YJ
1700 ' >YA
1710 x4=x3*20:y4=y3*20 >QA
1720 ORIGIN 420,200:PLOT x4,0,1:DRA >KL
W x4,y4:PLOT X4,Y4:DRAW 0,y4
1730 ' >YD
1740 '== CHOIX DIVERS >YE
1750 ' >YF
1760 LOCATE 1,17:PRINT" _____ Voulez- >TF
vous : "
1770 PRINT:PRINT" Un autre calcul ? >LB
"
1780 PRINT" Voir F(x)= ax+b ?" >BH
1790 PRINT" Voir F(x)= ax";CHR$(169) >NE
);" +b ?"

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1800 PRINT " Vous exercer ?"	>AJ	2210 '== Affichage des variables	>XH	2490 IF x3<0 THEN LOCATE 5,13:PRINT >YC
1810 PRINT " Terminer ?"	>WD	2220 '	>XJ	" Si x = -";ABS(x3)
1820 LOCATE 2,25:PRINT "Votre choix	>VU	2230 WINDOW#1,4,17,2,4:PAPER#1,1:CL	>QF	2500 y3=(a*(x3^2))+b
(1,2,3,4,5)"		S#1:PEN#1,0		>NX
1830 A\$=INKEY\$:IF A\$="1"THEN 1560	>ZP	2240 LOCATE#1,2,2:PRINT#1,"F(x)= ax	>WY	2510 IF y3>0 THEN LOCATE 8,15:PRINT >ZA
1840 IF A\$="1"THEN 1600	>PE	" ;CHR\$(169);"+b"		" y = +";y3:GOTO 2570
1850 IF A\$="2"THEN 1370	>PL	2250 LOCATE 4,6:INPUT"> a= ",a	>ZR	2520 IF y3<0 THEN LOCATE 8,15:PRINT >FE
1860 IF A\$="3"THEN 2190	>PP	2260 LOCATE 4,6:PRINT"	>YQ	" y = -";ABS(y3):GOTO 2570
1870 IF A\$="4"THEN 3040	>PL	2270 LOCATE 4,6:INPUT"> b= ",b	>ZW	2530 IF y3=0 THEN LOCATE 8,15:PRINT >JY
1880 IF A\$="5"THEN 2760	>PX	2280 LOCATE 4,6:PRINT"	>YT	" y = 0"
1890 GOTO 1830	>NH	2290 WINDOW#4,3,22,10,16:PAPER#4,1:	>TH	2540 '
1900 '	>YC	CLS#4:PEN#4,0		>YD
1910 '== TRACE DU CADRE	>YD	2300 IF b=0 THEN LOCATE#4,2,2:PRINT >DV		2550 '--- Tracer des coordonnees
1920 '	>YE	#4,"y =" ;a;CHR\$(8);"x";CHR\$(169):GO		>YE
1930 CLS:ORIGIN 0,0	>NJ	TO 2330		>YF
1940 PLOT 200,200:DRAW 640,200	>WA	2310 IF b<0 THEN LOCATE#4,2,2:PRINT >WK		2570 x4=x3*20:y4=y3*20
1950 PLOT 635,205:DRAW 640,200:DRAW	>JH	#4,"y =" ;a;CHR\$(8);"x";CHR\$(169);"		>QF
635,195		-";ABS(b):GOTO 2330		2580 ORIGIN 420,200:PLOT x4,0,1:DRA >WM
1960 PLOT 420,0:DRAW 420,400	>VV	2320 LOCATE#4,2,2:PRINT#4,"y =" ;a;C >JR		W x4,y4:DRAW 0,y4
1970 PLOT 415,395:DRAW 420,400:DRAW	>JN	HR\$(8);"x";CHR\$(169);" +";b		2590 '
425,395		2330 IF a=0 THEN LOCATE 4,7:PRINT"F >KM		>YJ
1980 FOR i=220 TO 640 STEP 20:MOVE >ZA		(x)= constante":GOTO 2380		2600 '== CHOIX DIVERS
i,197:DRAW i,203:NEXT		2340 LOCATE 4,7:PRINT TV#+TV1#+TV2# >DV		>YA
1990 FOR i=20 TO 400 STEP 20:MOVE 4 >YU		2350 IF a>0 THEN LOCATE 6,8:PRINT# >QD		2610 '
17,i:DRAW 423,i:NEXT		" ;CHR\$(9);CHR\$(9);CHR\$(9);CHR\$(241)		>YB
2000 LOCATE 27,12:PRINT"-";CHR\$(230 >VF		;" " ;CHR\$(240);" +":GOTO 2370		2620 LOCATE 1,18:PRINT" ____ Voulez- >TC
;CHR\$(230):LOCATE 78,12:PRINT"+";C		2360 IF a<0 THEN LOCATE 6,8:PRINT"- >AQ		vous :"
HR\$(230);CHR\$(230)		" ;CHR\$(9);CHR\$(9);CHR\$(9);CHR\$(240)		2630 PRINT:PRINT" Un autre calcul ? >LX
2010 LOCATE 27,14:PRINT"x'":LOCATE >VR		;" " ;CHR\$(241);" -"		"
79,14:PRINT"x"		2370 LOCATE 12,8:PRINT b	>TB	2640 PRINT" Voir F(x)= ax+b ?"
2020 LOCATE 51,1:PRINT"y";CHR\$(9);C >JW		2380 GOSUB 2080	>XF	>BD
HR\$(9);CHR\$(9);"+";CHR\$(230);CHR\$(2		2390 '	>YG	2650 PRINT" Revoir f(x)= ax";CHR\$(1 >TF
30):LOCATE 51,25:PRINT"y'";CHR\$(9);		2400 '== CALCUL DES COORDONNEES	>XJ	69);"+b ?"
CHR\$(9);"-";CHR\$(230);CHR\$(230)		2410 '	>XK	2660 PRINT" Terminer ?"
2030 PLOT 200,0:DRAW 200,400	>VZ	2420 IF a=0 AND b>=0 THEN LOCATE 6, >CQ		>WH
2040 PLOT 199,0:DRAW 199,400:RETURN >DW		13:PRINT" " ;CHR\$(127);" x => y =" ;b		2670 LOCATE 2,25:PRINT "Votre choix >RG
2050 '	>XK	;;GOTO 2440 ELSE GOTO 2460		(1,2,3,4)
2060 '== TRACAGE DE LA FONCTION	>YA	2430 IF a=0 AND b<0 THEN LOCATE 6,1 >CL		2680 A\$=INKEY\$:IF A\$="1"THEN 2460 >ZU
2070 '	>YB	3:PRINT" " ;CHR\$(127);" x => y = " ;b		2690 IF A\$="2"THEN 1370
2080 IF a=0 AND b=0 THEN RETURN	>XG	;;GOTO 2440 ELSE GOTO 2460		>PP
2090 ORIGIN 420,200	>MD	2440 IF b<0 OR b>0 THEN LOCATE 4,15 >MY		2700 IF A\$="3"THEN 2190
2100 FOR x=-10 TO 10 STEP 0.1	>UJ	:PRINT"L'équation ax";CHR\$(169);"+b		>PH
2110 IF j=1 THEN y=(a*x)+b	>TB	=0":LOCATE 4,16:PRINT" est impossi		2710 IF A\$="4"THEN 2760
2120 IF j=2 THEN y=(a*(x^2))+b	>XM	ble! ":GOTO 2620		>PN
2130 x1=x*20:y1=y*20	>PR	2450 IF b=0 THEN LOCATE 4,15:PRINT" >CW		2720 GOTO 2680
2140 IF x=-10 THEN DRAW x1,y1,0,3 E >RC		L'équation ax";CHR\$(169);"+b=0":LOC		>NE
LSE DRAW x1,y1,1		ATE 4,16:PRINT"est indéterminée!":		>YE
2150 NEXT:RETURN	>MW	GOTO 2620		>YF
2160 '	>YB	2460 LOCATE 5,13:PRINT" Si x=	>NG	>YG
2170 '** FONCTION f(x)=ax2 + b	>YC	" :LOCATE 8,15:PRINT" y=		2760 MODE 1
2180 '	>YD	2470 LOCATE 5,13:INPUT" Si x= ",x3 >CC		>QA
2190 j=2:GOSUB 550:GOSUB 1930	>XZ	2480 IF x3>0 THEN LOCATE 5,13:PRINT >RF		2770 WINDOW#2,9,32,6,13:PAPER#2,2:C >RA
2200 '	>XG	" Si x= +";x3		LS#2:PEN#2,3
				2780 WINDOW#3,5,36,16,21:PAPER#3,1: >TA
				CLS#3:PEN#3,3
				2790 ' dessin des cadres
				>ZA
				2800 PEN 3:LOCATE 2,3:PRINT CHR\$(15 >NE
				0):FOR i=3 TO 38:LOCATE i,3:PRINT C
				HR\$(154);:NEXT
				2810 LOCATE 39,3:PRINT CHR\$(156):FO >HC
				R i=4 TO 22:LOCATE 39,i:PRINT CHR\$(
				149);:NEXT
				2820 LOCATE 39,22:PRINT CHR\$(153):F >UP
				OR i=38 TO 3 STEP-1:LOCATE i,22:PRI
				NT CHR\$(154);:NEXT
				2830 LOCATE 2,22:PRINT CHR\$(147):FO >QT
				R i=21 TO 4 STEP-1:LOCATE 2,i:PRINT

CHR\$(149);:NEXT	3150 ' >YB	ante":GOTO 3400	
2840 PEN 1:FOR I=8 TO 33:LOCATE 1,5 >BX	3160 '--- Croissante,Decroissante ? >YC	3400 GOSUB 1320 >WF	
:PRINT CHR\$(238);:NEXT	3170 ' >YD	3410 ' >YA	
2850 FOR I=5 TO 14:LOCATE 33,1:PRIN >WV	3180 LOCATE#4,2,2:PRINT#4,"F(x) est >HM	3420 '--- Calcul et trace des coordo >YB	
T CHR\$(238);:NEXT	:	nnees	
2860 FOR I=33 TO 8 STEP-1:LOCATE 1, >EN	3190 LOCATE#4,4,4:PRINT#4,"- croiss >QJ	3430 ' >YC	
14:PRINT CHR\$(238);:NEXT	ante ?"	3440 CLS#4:LOCATE#4,2,2:PRINT#4,"Ca >DM	
2870 FOR I=14 TO 5 STEP-1:LOCATE 8, >DG	3200 LOCATE#4,4,5:PRINT#4,"- décroi >UM	lculons un peu !"	
1:PRINT CHR\$(238);:NEXT	ssante ?"	3450 FOR I=1 TO 3 >CC	
2880 LOCATE#2,5,2:PRINT#2,"ETES-VOU >LH	3210 LOCATE#4,4,6:PRINT#4,"- consta >NH	3460 LOCATE 5,11:PRINT"si x = >ER	
S SUR"	nte ?"	"	
2890 LOCATE#2,2,3:PRINT#2,"D'AVOIR >XC	3220 LOCATE#4,2,8:PRINT#4,"Tapez C, >PF	3470 LOCATE 5,13:PRINT" y = >CU	
TOUT COMPRIS ?"	D ou O."	"	
2900 LOCATE#2,3,7:PRINT#2,"REFLECHI >TQ	3230 a\$=UPPER\$(INKEY\$) >RX	3480 LOCATE 12,11:INPUT",x1 >WR	
SSEZ BIEN !"	3240 IF a>0 AND a\$="C"THEN 3310 >WM	3490 IF x1>0 THEN LOCATE 5,11:PRINT >DK	
2910 FOR I=1 TO 1000:NEXT >TL	3250 IF a>0 AND(a\$="D"OR a\$="O")THE >FD	"si x = +";x1:GOTO 3510	
2920 LOCATE#3,1,2:PRINT#3,"Tapez : " >FC	N 3320	3500 IF x1<0 THEN LOCATE 5,11:PRINT >YY	
2930 LOCATE#3,2,3:PRINT#3,"1_ pour >HB	3260 IF a<0 AND(a\$="C"OR a\$="O")THE >FD	"si x = -";ABS(x1)	
revoir F(x)= y=ax+b"	N 3340	3510 LOCATE 12,13:INPUT",y1 >WN	
2940 LOCATE#3,2,4:PRINT#3,"2_ pour >ZU	3270 IF a<0 AND a\$="D"THEN 3360 >WV	3520 IF y1>0 THEN LOCATE 5,13:PRINT >CB	
revoir F(x)= y=ax";CHR\$(169);"+b"	3280 IF a=0 AND a\$="O"THEN 3370 >WB	" y = +";y1:GOTO 3540	
2950 LOCATE#3,2,5:PRINT#3,"3_ Si vo >QC	3290 IF a=0 AND(a\$="D"OR a\$="C")THE >FJ	3530 IF y1<0 THEN LOCATE 5,13:PRINT >WE	
us avez vraiment fini!"	N 3380	" y = -";ABS(y1)	
2960 A\$=INKEY\$:IF A\$="1"THEN 1370 >ZU	3300 GOTO 3230 >MB	3540 x1=x1*20:y1=y1*20 >QT	
2970 IF A\$="2"THEN 2190 >PR	3310 CLS#4:LOCATE#4,2,2:PRINT#4,"F(>MW	3550 ORIGIN 420,200:PLOT x1,0,1:DRA >JD	
2980 IF A\$="3"THEN 3000 >PJ	x)= croissante ":LOCATE#4,5,6:PRINT	W x1,y1:PLOT X1,Y1:DRAW 0,y1	
2990 GOTO 2960 >PE	#4," B I E N !":GOTO 3400	3560 CALL &BBO6:NEXT >PM	
3000 CLS#2:CLS#3:LOCATE#2,7,4:PRINT >ED	3320 CLS#4:LOCATE#4,2,2:IF a\$="D"TH >BR	3570 GOSUB 2080 >XH	
#2,"AU REVOIR !":LOCATE#3,11,4:PR	EN PRINT#4,"F(x)= décroissante?"ELS	3580 ' >YJ	
INT#3,"A BIENTOT !":CALL &BBO6:CAL	E PRINT#4,"F(x) = constante ?"	3590 '== FELICITATIONS >YK	
L O	3330 LOCATE#4,4,4:PRINT#4," e r r e >MN	3600 ' >YB	
3010 ' >XG	u r !":LOCATE#4,2,6:PRINT#4,"a>0 =	3610 CLS#4:LOCATE#4,2,2:PRINT#4,"B >VH	
3020 '== JOUONS AVEC Y=AX+B >XH	>":LOCATE#4,5,7:PRINT#4,"F(x) crois	R A V O !":LOCATE#4,4,4:PRINT#4,"po	
3030 ' >XJ	sante":GOTO 3400	ur ce":LOCATE#4,6,6:PRINT#4,"résult	
3040 RANDOMIZE(TIME):GOSUB 1930 >AG	3340 CLS#4:LOCATE#4,2,2:IF a\$="C"TH >XV	at..!"	
3050 WINDOW#1,4,17,2,4:PAPER#1,1:CL >QG	EN PRINT#4,"F(x) = croissante?"ELSE	3620 ' >YD	
S#1:PEN#1,0	PRINT#4,"F(x) = constante?"	3630 '== CHOIX DIVERS >YE	
3060 WINDOW#4,3,23,8,15:PAPER#4,1:C >RV	3350 LOCATE#4,4,4:PRINT#4," e r r e >TA	3640 ' >YF	
LS#4:PEN#4,0	u r !":LOCATE#4,2,6:PRINT#4,"a<0 =	3650 LOCATE 1,17:PRINT" Voulez- >TF	
3070 LOCATE#1,2,2:PRINT#1,"F(x)= ax >HA	>":LOCATE#4,4,7:PRINT#4,"F(x) décro	vous :"	
+b"	issante":GOTO 3400	3660 PRINT:PRINT:PRINT" Voir F(x)= >QJ	
3080 a=INT((RND(1))*5):b=INT((RND(1 >HG	3360 CLS#4:LOCATE#4,2,2:PRINT#4,"F(>QK	ax+b ?"	
))*5)	x)= décroissante":LOCATE#4,4,6:PRIN	3670 PRINT" Voir F(x)= ax";CHR\$(169 >VM	
3090 c=(RND(1)):IF c>0.5 THEN a=-a >AD	T#4," B I E N !":GOTO 3400);"+b PRINT"	
3100 d=(RND(1)):IF d>0.5 THEN b=-b >ZH	3370 CLS#4:LOCATE#4,3,2:PRINT#4,"F(>KB	3680 PRINT" Vous exercer ?" >AT	
3110 IF a=0 AND b=0 THEN 3080 >UK	x) = constante":LOCATE#4,5,6:PRINT#	3690 PRINT" Terminer ?" >WM	
3120 PEN 1:IF b<0 THEN LOCATE 4,6:P >ER	4," B I E N !":GOTO 3400	3700 LOCATE 2,25:PRINT"Votre choix >TD	
RINT"y = ";a;CHR\$(8);"x -";ABS(b):G	3380 CLS#4:LOCATE#4,2,2:IF a\$="C"TH >BM	(1,2,3,4)"	
OTO 3180	EN PRINT#4,"F(x) = croissante?"ELSE	3710 A\$=INKEY\$:IF A\$="1"THEN 1370 >ZM	
3130 IF b=0 THEN LOCATE 4,6:PRINT"y >JA	PRINT#4,"F(x)=décroissante?"	3720 IF A\$="2"THEN 2190 >PK	
= ";a;CHR\$(8);"x":GOTO 3180	3390 LOCATE#4,4,4:PRINT#4," e r r e >KP	3730 IF A\$="3"THEN 3040 >PG	
3140 LOCATE 4,6:PRINT"y = ";a;CHR\$(>PB	u r !":LOCATE#4,2,6:PRINT#4,"a=0 =	3740 IF A\$="4"THEN 2760 >PT	
8);"x +";b	>":LOCATE#4,6,7:PRINT#4,"F(x) const	3750 GOTO 3710 >ND	