TITLE
TITEL **Solution of quadratic equation v. 2**
TITRE

PROGRAMMER
PROGRAMMIERER unknown
PROGRAMMEUR

DATE
DATUM unknown
DATE

TI PROGRAMMABLE 57

PROGRAM
RECORDPROGRAMM-
BERICHTFICHE PROGRAMME

PROGRAM DESCRIPTION – PROGRAMM BECHREIBUNG – DESCRIPTION DU PROGRAMME

Solution of quadratic equation v. 2

Programm was published in Czech user guide

Programm calculates roots of quadratic equation ax2 + bx + c = 0. It uses so called „half formula“:

$$x_{1,2}=\frac{-b}{2a}\pm\sqrt{\frac{b^2}{4\cdot a^2}-\frac{c}{a}}$$

USER INSTRUCTIONS – BENUTZER INSTRUCTIONEN – MODE D´ EMPLOI

STEP SCHRITT SEQ	PRESS BEFEHL APPUYER SUR	DISPLAY ANZEIGE AFFICHAGE
1	a STO 1	a
2	b STO 2	b
3	c STO 3	c
4	RST	
5	R/S	
6 a	When display doesn’t blink, root x1 is on display and in R6,	x1
	X2 is in R7 and can be recalled by pressing x<>t key	
6b	When display blinks, roots are complex numbers in shape	s
	X1,2 = r +/- is . Part s blinks on display, part r is in R7	

FLOW CHARTS / NOTES
FLUSSDIAGRAMM / BEMERKUNGEN
ORGANIGRAMME / NOTES

KEY TASTE TOUCHE	LOC ADR ADR	CODE KODE CODE	COMMENTS BEMERKUNGEN COMENTAIRES
RCL 1	00	33 1	
INV 2nd PRD 2	01	-39 2	
INV 2nd PRD 3	02	-39 3	
RCL 2	03	33 2	
+/-	04	84	
:	05	45	
2	06	02	
=	07	85	
STO 6	08	32 6	
STO 7	09	32 7	
X2	10	23	
-	11	65	
RCL3	12	33 3	
=	13	85	
sqr(x)	14	24	
SUM 6	15	34 6	
INV SUM 7	16	-34 7	
RCL 6	17	33 6	
R/S	18	81	
X <->t	19	22	
R/S	20	81	
RST	21	71	
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DATA REGISTERS DATENSPEICHER REGISTRES-MEMOIRE			LABELS LABELS LABELS	
0	Dsz			
1		a		
2		b		
3		c		
4				
5	(AOS)			
6	(AOS)			
7	(t)	x_2 or r		

TEXAS INSTRUMENTS