

ClrHome
Menu("WHAT FORM?", "AX²+BX+C", 1, "A(X-H)²+K", 2, "A(X-P)(X-Q)", 3)

Lbl 1
Prompt A
Prompt B
Prompt C
-B/(2A)→H
B²/(4A)-B²/(2A)+C→K
Lbl 8
If B²-4AC<0
Then
Goto 7
End
(-B+√(B²-4AC))/(2A)→P
(-B-√(B²-4AC))/(2A)→Q
Goto 7

Lbl 2
Prompt A
Prompt H
Prompt K
-2AH→B
AH²+K→C
Goto 8

Lbl 3
Prompt A
Prompt P
Prompt Q
-A(P+Q)→B
APQ→C
(P+Q)/2→H
(-A(P-Q)²)/4→K
Goto 7

Lbl 7
ClrHome
Output(1,3,A)
Output(1,1,"A=")
Output(2,3,B)
Output(2,1,"B=")
Output(3,03,C)
Output(3,1,"C=")
Output(4,03,H)
Output(4,1,"H=")
Output(5,03,K)
Output(5,1,"K=")
If B²-4AC<0
Then
Goto 4
End
Output(6,03,P)
Output(6,1,"P=")
Output(7,03,Q)
Output(7,1,"Q=")
Stop
Lbl 4

Output(8,1,"NO P or Q")
Stop