

DAY
1-11-2005

ClrHome
Menu("DO YOU KNOW?", "STANDARD", 1, "VERTEX", 2, "INTERCEPT", 3)

Lbl 1
Prompt A
Prompt B
Prompt C
 $-B/(2A) \rightarrow H$
 $AH^2 + BH + C \rightarrow K$
If $B^2 - 4AC < 0$
Then
Goto 7
End
 $(-B + \sqrt{B^2 - 4AC}) / (2A) \rightarrow P$
 $(-B - \sqrt{B^2 - 4AC}) / (2A) \rightarrow Q$
Goto 7

Lbl 2
Prompt A
Prompt H
Prompt K
 $-2AH \rightarrow B$
 $AH^2 + K \rightarrow C$
If $B^2 - 4AC < 0$
Then
Goto 7
End
 $(-B + \sqrt{B^2 - 4AC}) / (2A) \rightarrow P$
 $(-B - \sqrt{B^2 - 4AC}) / (2A) \rightarrow Q$
Goto 7

Lbl 3
Prompt A
Prompt P
Prompt Q
 $-A(P+Q) \rightarrow B$
 $APQ \rightarrow C$
 $(P+Q)/2 \rightarrow H$
 $APQ - A((P+Q)/2)^2 \rightarrow K$
Goto 7

Lbl 7
ClrHome
Output(1, 1, "A=")
Output(1, 3, A)
Output(2, 1, "B=")
Output(2, 3, B)
Output(3, 1, "C=")
Output(3, 3, C)
Output(4, 1, "H=")
Output(4, 3, H)
Output(5, 1, "K=")
Output(5, 3, K)

If $B^2 - 4AC < 0$

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Then
Goto 4
End
Output(6,1,"P=")
Output(6,3,P)
Output(7,1,"Q=")
Output(7,3,Q)
Stop
Lb1 4
Output(6,1,"P=NOPE")
Output(7,1,"Q=NOPE")
Stop
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