

Calculator Programs for the TI-83

Use at your own risk.

PROGRAM: QUADROOT

:Prompt A,B,C

:(-B + $\sqrt{B^2-4*A*C}$
)/(2*A)->N

::(-B - $\sqrt{B^2-4*A*C}$
)/(2*A)->P

: Disp "POS ROOT"

,P

: Disp "NEG ROOT"

,N

:STOP

PROGRAM: WEAK

:Prompt K

:Prompt A

:E-14->W

:solve($X^3+K*X^2-(W+K*A)*X-K*W$,X
,4, {0,5})

Disp "THE PH IS

", -Log(Ans)

:Stop

PROGRAM: BUF

:Prompt K

:Prompt A

:Prompt B

:E-14->W

:solve($X^3+(B+K)*X^2-(W+K*A)*X-K*W$,X
,4, {0,5})

Disp "THE PH IS

", -Log(Ans)

:Stop