

Programming the Casio fx-9750/9860 QUAD

Note Title

2014-08-06

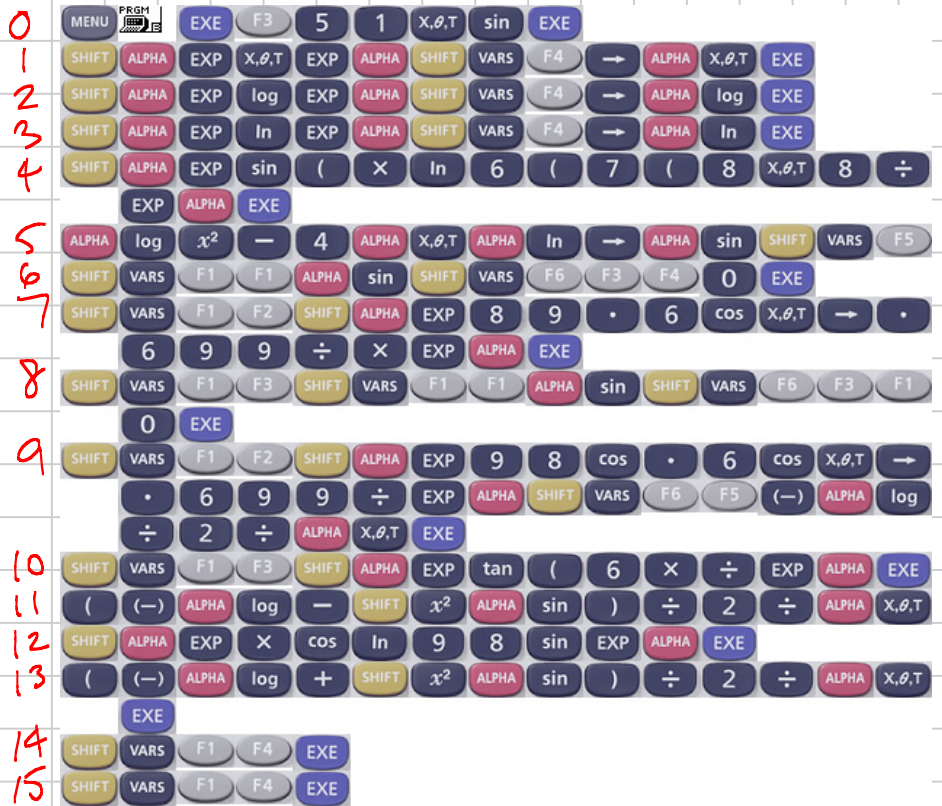
The Quadratic Formula



Recall: $ax^2 + bx + c = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

discriminant $\equiv b^2 - 4ac$
 < 0 no real roots
 $= 0$ one real root
 > 0 two real roots

```

0 =====QUAD =====
1 "A"?>A#
2 "B"?>B#
3 "C"?>C#
4 "DISCRIMINANT" #
5 B^2-4AC>D,
6 If D<0#
7 Then "NO REAL ROOTS" #
8 Else If D=0#
9 Then "ONE REAL ROOT":
  -B÷2÷A#
10 Else "FIRST" #
11 (-B-√D)÷2÷A,
12 "SECOND" #
13 (-B+√D)÷2÷A#
14 IfEnd#
15 IfEnd
TOP | BTM | SRC | MENU | A↔B CHAR
    
```



Test the following values to make sure everything is entered correctly. Press  3 times, then .

A?
1
B?
1
C?
1
DISCRIMINANT
-8
NO REAL ROOTS

-8

A?
1
B?
2
C?
1
DISCRIMINANT
0
ONE REAL ROOT

0

-1

A?
1
B?
1
C?
1
DISCRIMINANT
4
FIRST
-2
SECOND
0

4

-2

0