# Quadratic Formula—TI-83/84

## STEPS

Select **PRGM**, then select **NEW**

Select **ENTER**

Type QUADFORM and press **ENTER**

Press **PRGM** then select **I/O**

Select 8 then press **ENTER**

This command will clear the screen at the start of the program.

Select **PRGM** and arrow over to **I/O**. Select 1: (Input). To get the quote, push **[ALPHA]** then **+**

Press **[ALPHA]** **[MATH]** will give the **A**. Press **2nd** **[MATH]** [TEST] and choose =. Press **[ALPHA]** then **+** again to end the quote. Press **[ALPHA]** (found above **7**). Use **[ALPHA]** again and select **A**.

Repeat the same steps so **B** and **C** can be inputted.

These variables are obtained by using the **[ALPHA]** key. We want to rename **B** – **4AC** as **D**.

To store this new quantity into memory, we use the **** key followed by **[ALPHA]** **[STO]** [D].

We need to do two more calculations, one for each root. Enter the line **(-B+√(D))/(2A)→R** into the program. Write another line that will calculate the second root and store the result into **S**.

The Disp is found as before. Note that the **R** and **S** do not have quotes around them.

Select **2nd** **MODE** [QUIT] to exit the program.

## DISPLAY

EXEC EDIT **NEW**

Create New

PROGRAM: QUADFORM :

PROGRAM: QUADFORM :ClrHome

PROGRAM: QUADFORM :ClrHome :Input "A=", A

:B^2 − 4AC→D

:Disp R

:Disp S