

Activity 8 - Finding the Root(s) of a Function

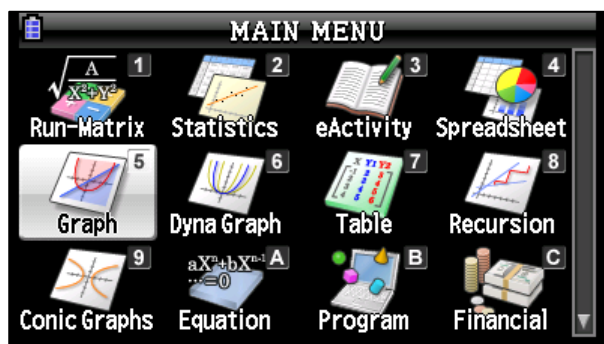
$$Y1 = x^3 - 2.5x^2 - x + 2$$

CASIO Domain: [-6.3, 6.3] and Range: [-3.1, 3.1] (INITIAL Setting)

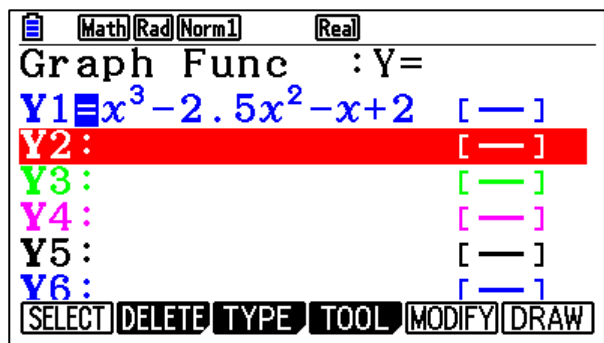
TI Domain: [-10, 10] and Range: [-10, 10]

CASIO (PRIZM)

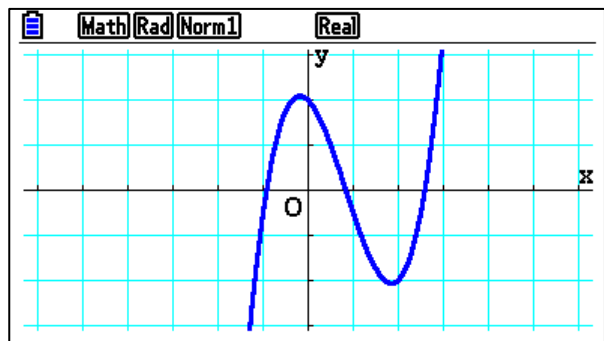
1. From the Main Menu (MENU), select the **GRAPH** icon by pressing **5**.



2. Enter the function in **Y1** and press **EXE** to store the function.

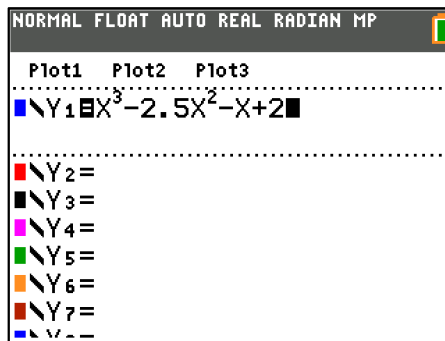


3. Press **F6** (DRAW) to view the graph of the function.

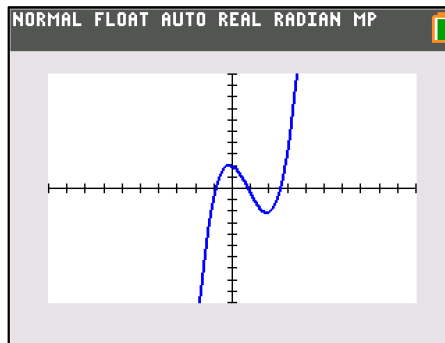


TEXAS INSTRUMENTS (84 PLUS CE)

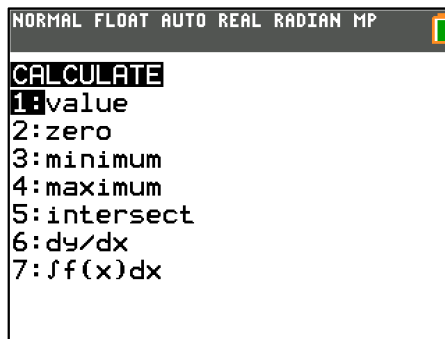
1. Press **Y=** and enter the function in **Y1**.



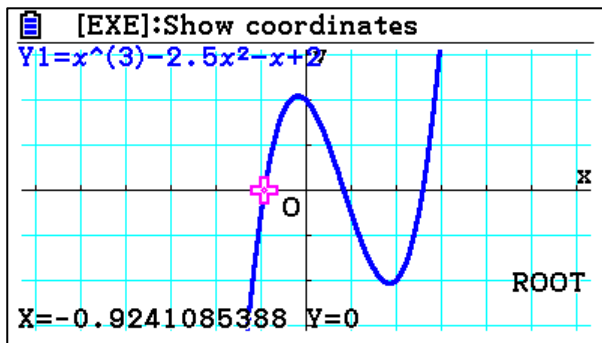
2. Press **GRAPH** to see the graph of the function.



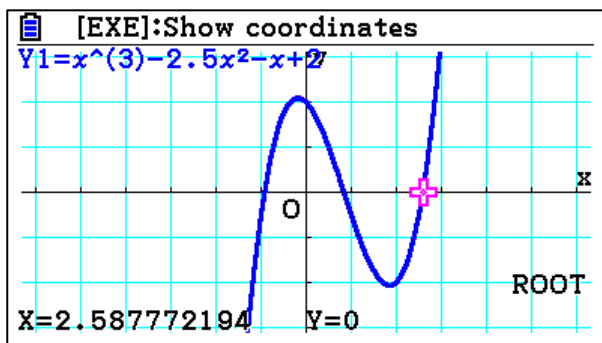
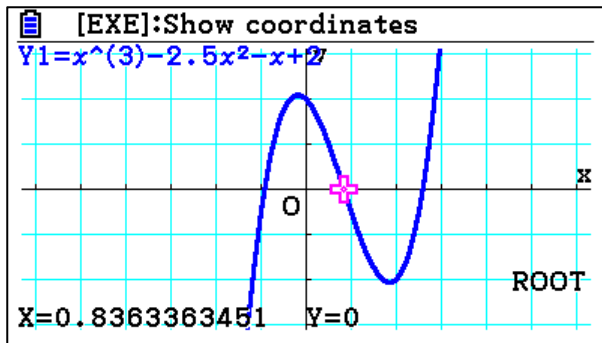
3. Press **2nd** **TRACE** (calc).



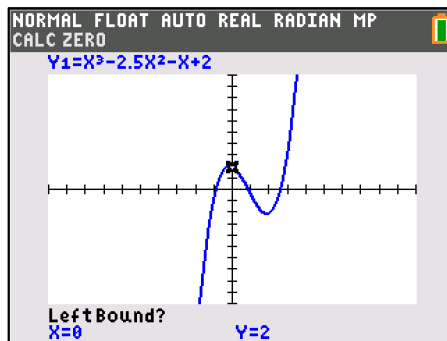
4. Press **F5** (G-Solv), then **F1** (ROOT).



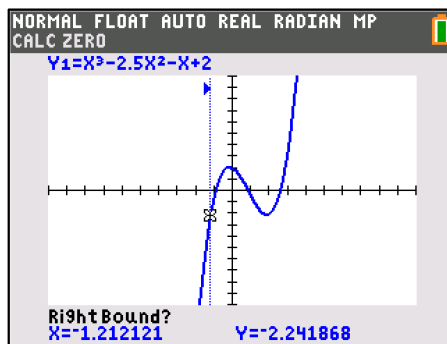
5. To find the next root, press **▶**. Use the arrow keys to toggle between all roots.



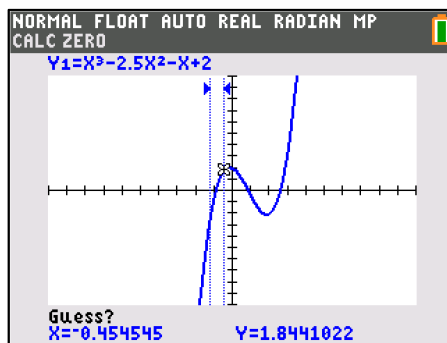
4. Press **2** (zero) or arrow down to **2** and press **ENTER**.



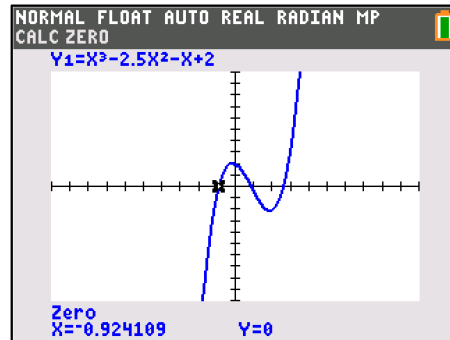
5. Use the arrow keys (**◀▶**) to move the cursor to the left side of the desired root and press **ENTER**.



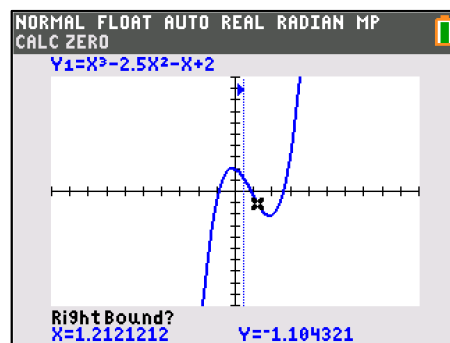
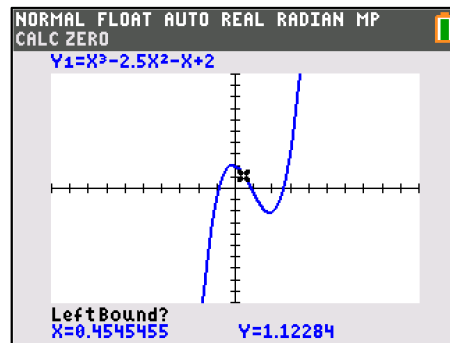
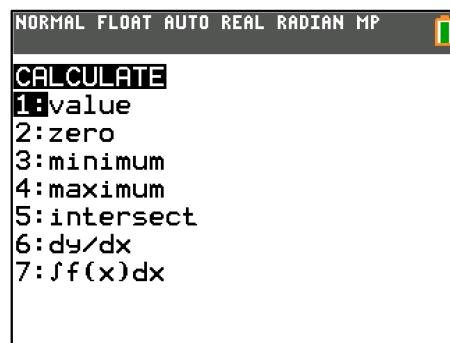
6. Use the arrow keys (**◀▶**) to move the cursor to the right side of the desired root and press **ENTER**.

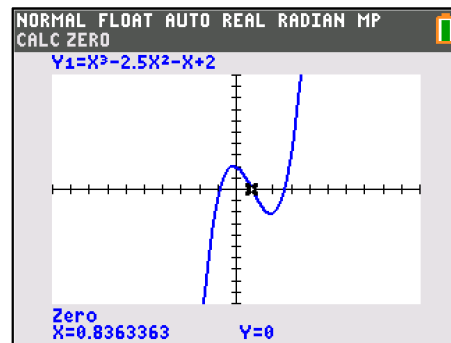
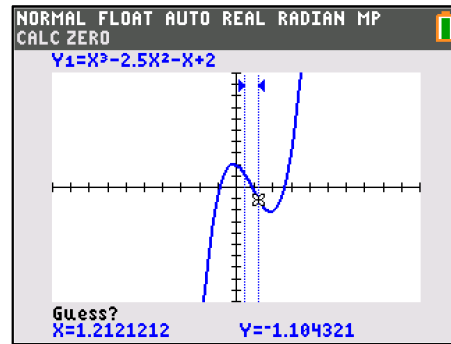


7. Use the arrow keys (\leftarrow \rightarrow) to move the cursor as close to the desired root and press ENTER .



8. To find the second root, repeat Steps 3 - 7.





9. To find the third root, repeat Steps 3 - 7.

NORMAL FLOAT AUTO REAL RADIAN MP

CALCULATE

1:value
2:zero
3:minimum
4:maximum
5:intersect
6:dy/dx
7: $\int f(x)dx$

