

Activity 11 - Finding Values from the Graph

$$Y1 = x^2 + 3x - 4$$

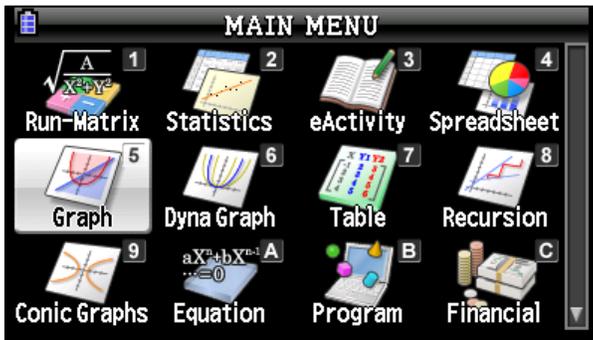
Find Y, Given X = -5.5

Find X, Given Y = 2

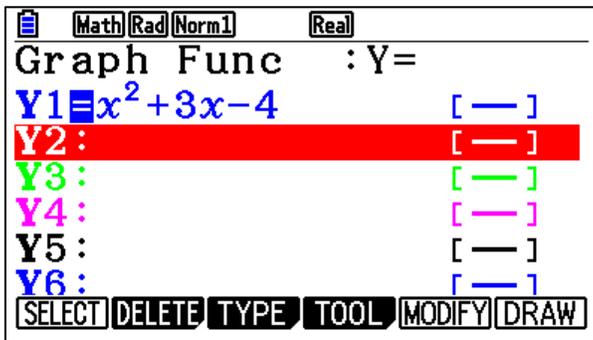
Domain: [-10, 10] and Range: [-10, 10]

CASIO (PRIZM)

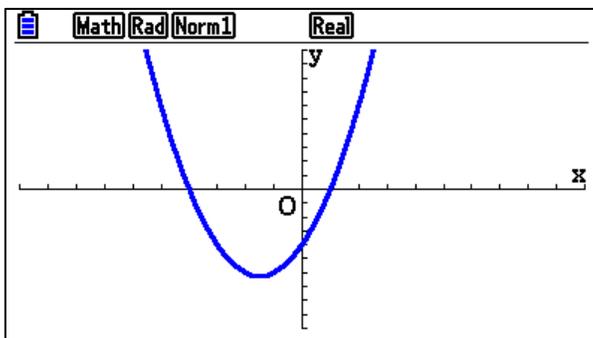
1. From the Main Menu (MENU), select the **GRAPH** icon by pressing **5**.



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

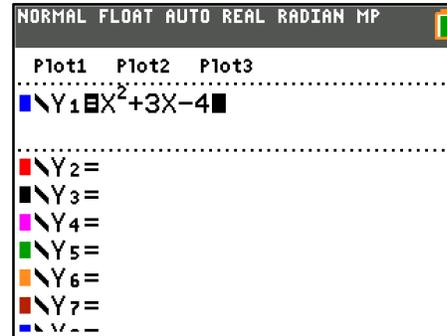


3. Press **F6** (DRAW) to view the graph of the function.

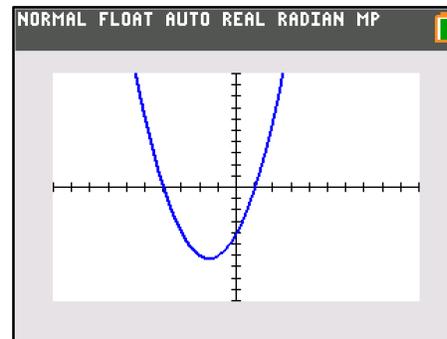


TEXAS INSTRUMENTS (84 PLUS CE)

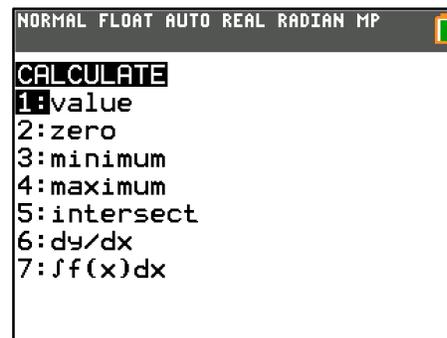
1. Press **Y=** to enter the function in **Y1**.



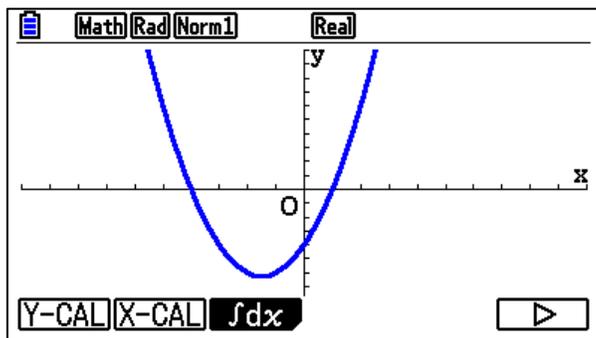
2. Press **GRAPH** to view the graph of the function.



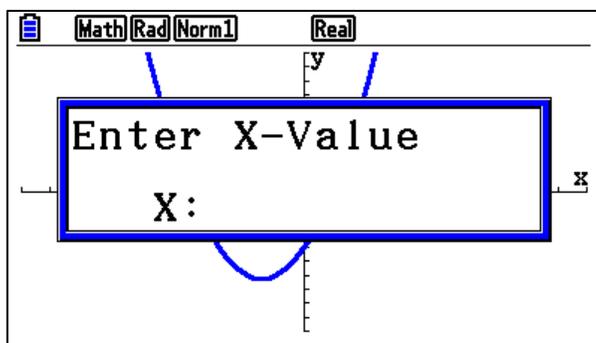
3. Press **2nd** **TRACE** (calc).



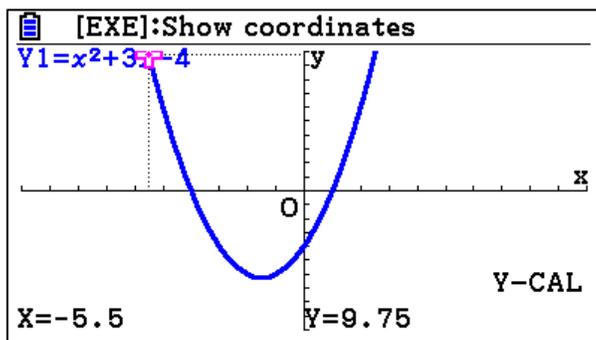
4. Press **F5** (G-Solv) **F6** (\triangleright).



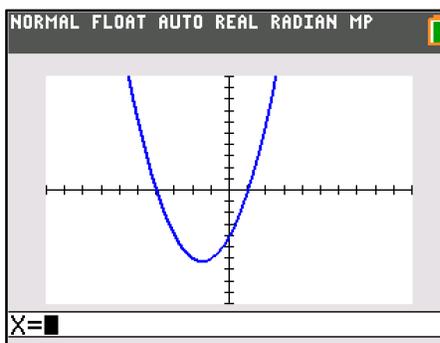
5. To solve for a **Y-value** with a given **X-value**, press **F1** (Y-Cal).



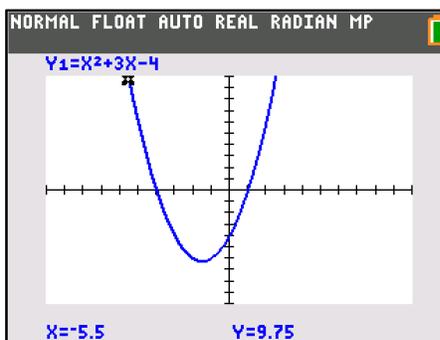
6. Enter the **X-value** and press **EXE**. You will see the x- and y- values displayed on the graph.



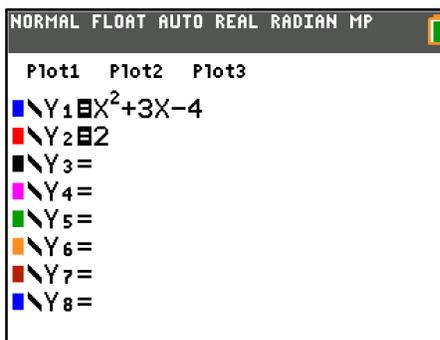
4. To solve for a **Y-value** with a given **X-value**, press **1** (value) or press **ENTER** since **1** is highlighted.



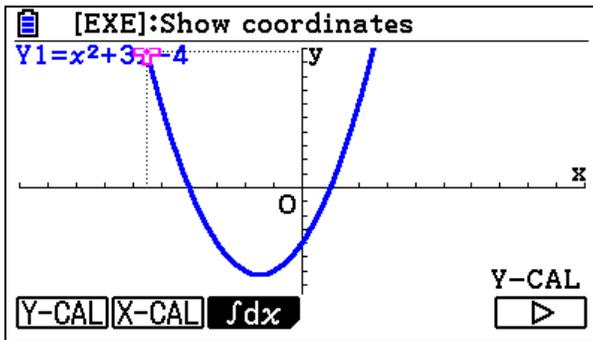
5. Enter the given **x-value** and press **ENTER**. The **x-** and **y-values** are displayed on the graph.



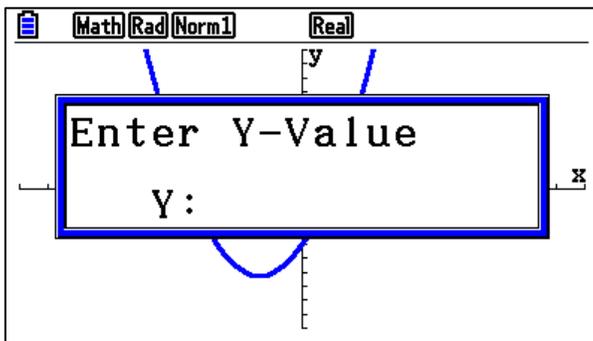
6. To solve for a **X-value** with a given **Y-value**, the **y-value** must be entered as a function first. Press **Y=** and enter the **y-value** in **Y2**.



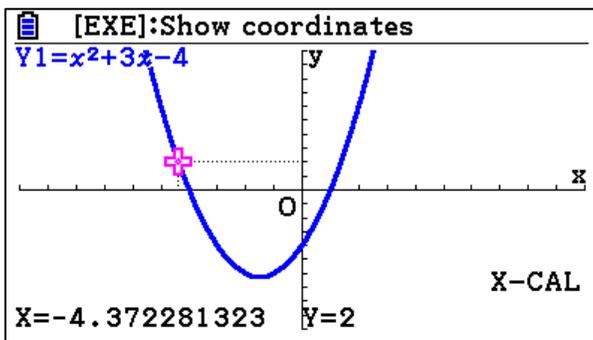
7. From the graph, to solve for a **X-value** with a given **Y-value**, press **F5** (G-Solv) **F6** (\triangleright).



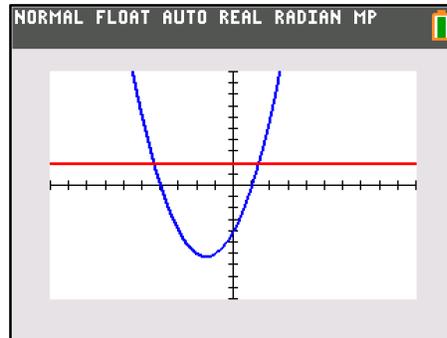
8. Press **F2** (X-Cal).



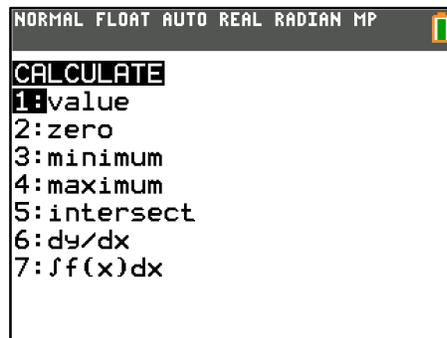
9. Enter the **Y-value** and press **EXE**. The coordinates of x- and y- for the given y-value will display on the graph.



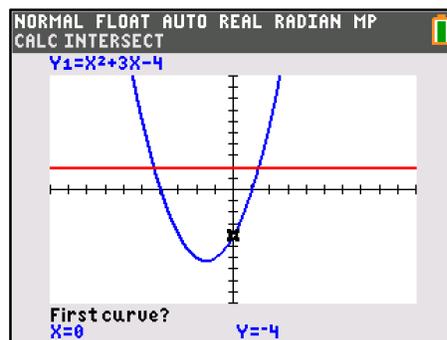
7. Press **GRAPH** to view the graph of the functions.



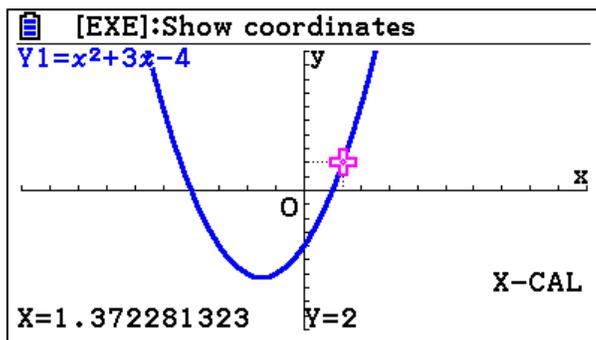
8. Press **2nd** **TRACE** (calc).



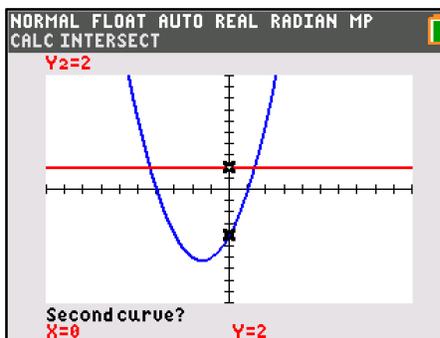
9. Press **5** (intersect) to find the intersection of the two functions.



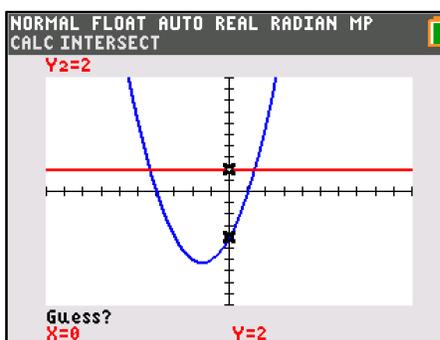
10. If there is more than one x-coordinate for the given **y-value**, use the arrow keys (◀ ▶) to toggle to the next **x-value**.



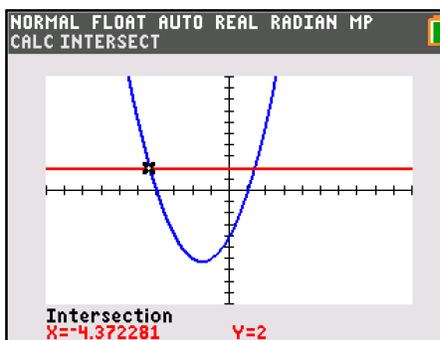
10. Choose the first function by pressing **ENTER**.



11. Choose the second function by pressing **ENTER**.



12. Use the arrow keys (◀ ▶) to move the cursor closer to the desired intersection and press **ENTER**.



13. If there is another intersection, repeat Steps 8 - 12.

```
NORMAL FLOAT AUTO REAL RADIAN MP
CALCULATE
1:value
2:zero
3:minimum
4:maximum
5:intersect
6:dy/dx
7:∫f(x)dx
```

