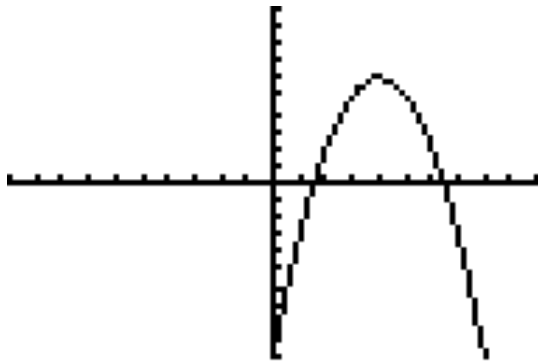


Finding Maximum and Minimum using the TI-83/84

Step 1 – Press $Y=$, and enter the equation.

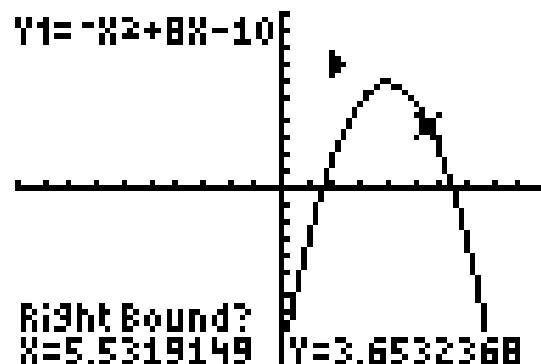
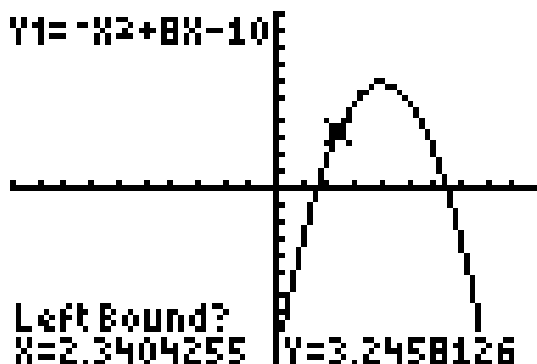
Step 2 – Graph the function with the maximum on the screen.
(ZOOM, '6: ZStandard' is a good way to start.)



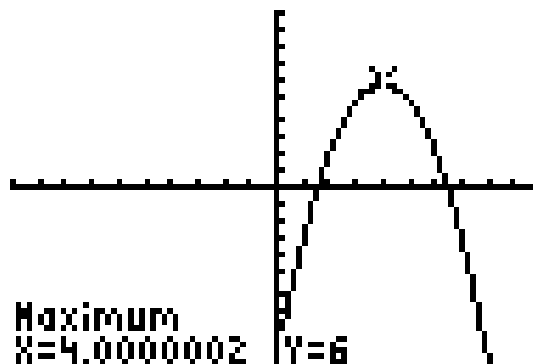
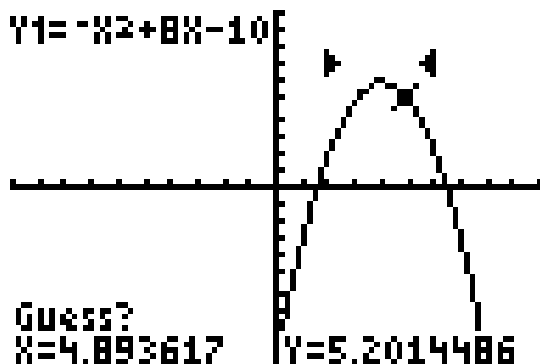
Step 3 – Press $2ND$ and then $CALC$ (with the TRACE button).
Select '4: maximum'. (or '3: minimum')

Step 4 – At the 'Left Bound?' prompt, use the left and right arrows
to move the blinking cursor to the left of the maximum. Press the
 $ENTER$ button.

Step 5 – At the 'Right Bound?' prompt, use the left and right arrows
to move the blinking cursor to the right of the maximum. Press the
 $ENTER$ button.



Step 6 – At the ‘Guess?’ prompt, push the ENTER button. The coordinates of the maximum (or minimum) will be at the bottom of the screen!



Try one yourself!

Find the maximum and minimum of the function $x^3 - 3x^2 - 3x + 4$.

Answer:

