

Graphing Calculator Step-by-Step Instructions to Graphing Quadratics

To Graph:

Press Y=

Type in the quadratic equation.

Press GRAPH

Adjust WINDOW if necessary.

To Find Maximum/Minimum (Vertex):

Press 2ND TRACE

Press 4: MAXIMUM

Left Bound will show on the bottom of the screen

Scroll until you reach the biggest y value possible.

Go one to the left.

Press ENTER

Right Bound will show on the bottom of the screen

Scroll until you reach the biggest y value possible.

Go one to the right.

Press ENTER

Guess will show up (WHO CARES)

Press ENTER

Your answer will show

MAXIMUM

X= Y=

This is the ordered pair (x,y).

To Find Roots/Zeros (x-intercept):

Press 2ND TRACE

Press 2: ZERO

Left Bound will show on the bottom of the screen

Scroll with arrows until you reach the smallest **positive** number possible

Press ENTER

Right Bound will show on the bottom of the screen

Scroll with arrows until you reach the **biggest negative** number possible

Press ENTER

Guess will show up (WHO CARES)

Press ENTER

Your answer will show

ZERO

X= Y=

This is the ordered pair (x,y). The y should be 0.

If you're asked to find:

Max Height: Vertex y

Time to reach max height: Vertex x

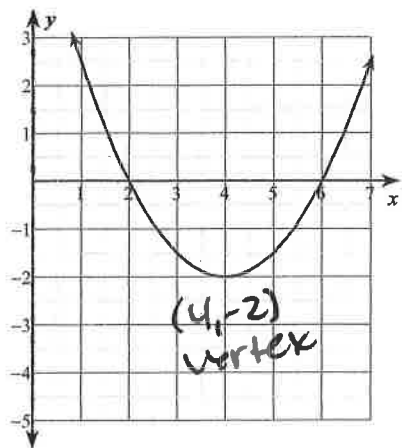
Time to reach the ground: Root x

*****2ND GRAPH (TABLE) will also help you with a lot of questions!*****

Graphing Quadratics with Calculator Notes

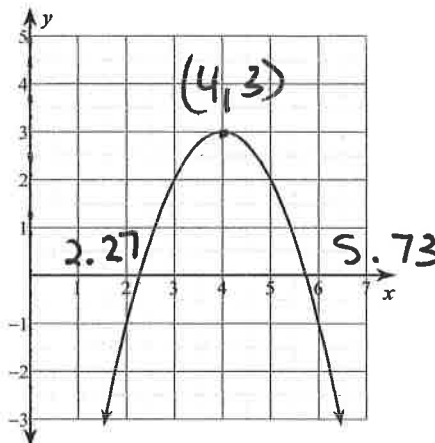
Sketch the graph of each function.

1) $y = \frac{1}{2}x^2 - 4x + 6$

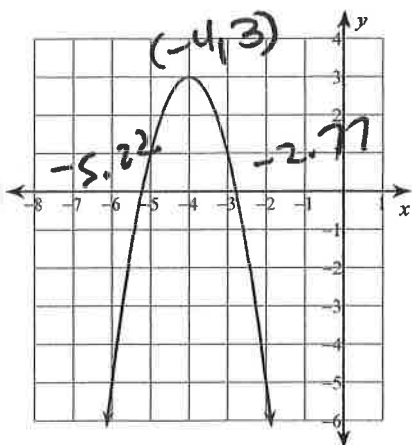


2, 6 zeros

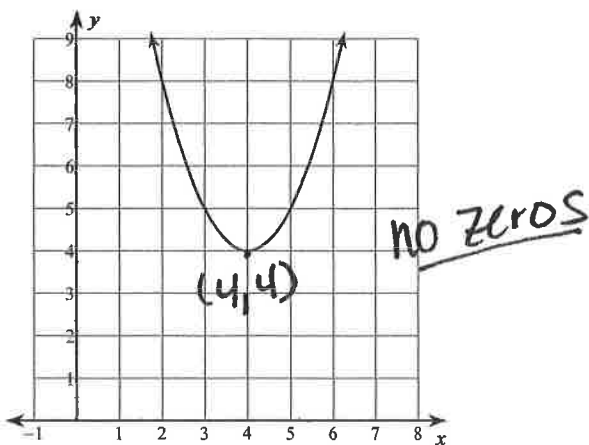
2) $y = -x^2 + 8x - 13$



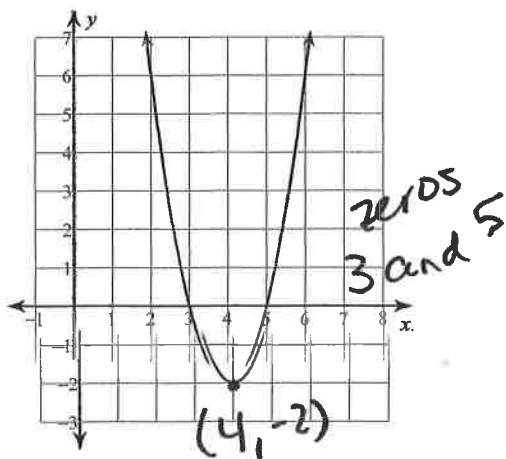
3) $y = -2x^2 - 16x - 29$



4) $y = x^2 - 8x + 20$



5) $y = 2x^2 - 16x + 30$



6) $y = -2x^2 + 4x - 4$

