

Starter

19 Jan 2018

State the y-intercept and the x-intercepts if they exist.

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

y-int (0, 6)

no x-int.

2) $y = 2x^2 - 6x + 8$

y-int (0, 8)

no x-int.

Quadratics Graphing Calculator Notes

Given: $y = -x^2 + 4x + 5$

Axis of symmetry
X = _____

Domain: _____

Range: _____

Vertex
(Maximum/Minimum points)

Left bound

2nd calc t4 L4 Y entry solve < enter >

entry solve enter 2

Right bound

(____, ____) Vertex

y-intercept

2nd calc t4 L1 Y catalog < entry solve

2nd trace 1 0 enter

(0, ____)

Zeros/x-intercepts

Left bound

2nd calc t4 L2 Z entry solve < enter > entry solve enter 2

Right bound

Repeat for other zero

(____, 0) &

(____, 0)

$y = ax^2 + bx + c$

$(0, 0) - 2$ y-int

$-2 - 8$ Vertex: $(-2, -8)$

2nd
trale
|
center

2nd
trale
max/min

7] $y = -3x^2 - 12x + 1$
 $a = -3$ $b = -12$ $c = 1$

Opens up or down?
 Is vertex a max or min?
 y-intercept: $(0, 1)$
 Axis of Symmetry is $x = -2$

Vertex: $(-2, 13)$

$(3, -62)$

$(-3, 10)$

Finish worksheet.