

Compute h-intercepts by solving $-h^2-6h+51=0$: $(-3-2\sqrt{15},0)$, $(-3+2\sqrt{15},0)$

100

vertex

-100

-200

-300

Extend the parabola beyond the range of intercepts

100

vertex

-100

-200

-300

w-intercept

w-intercept

root2 10

15

15

Step 4.

root1

-15

Step 5.

root1

-15

-10

connect the above computed points: