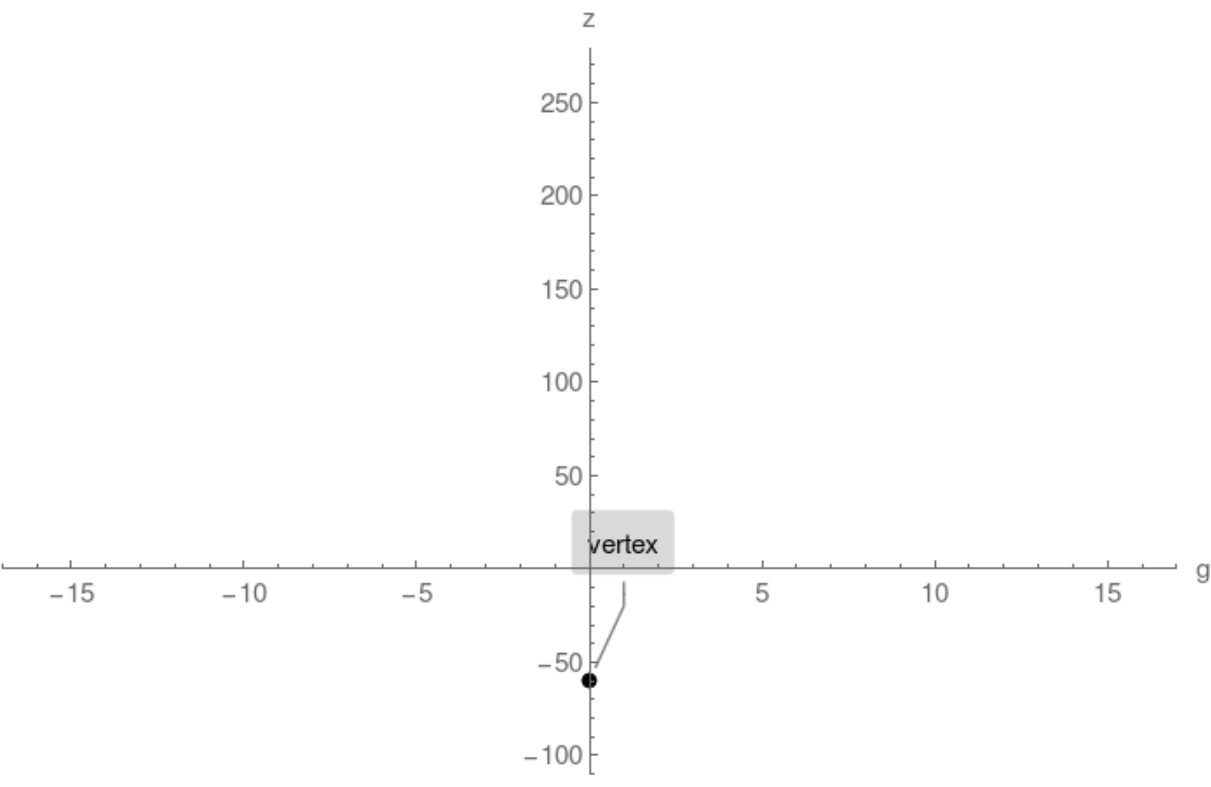
# Example 1. 2 horizontal intercepts found

Plot $z(g)=g^2-60$

## Step 1.

Compute vertex and plot single point:

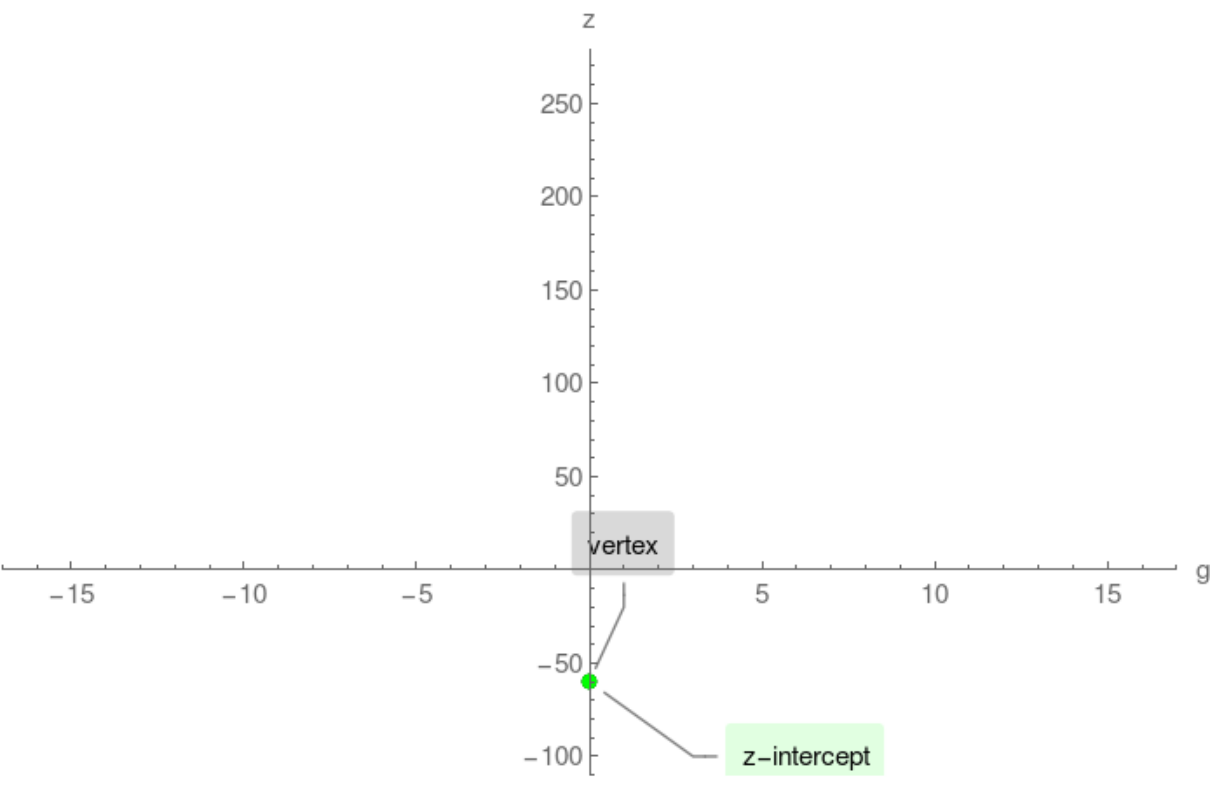
vertex$=(0,-60)$




## Step 2.

Compute z-intercept and plot single point:

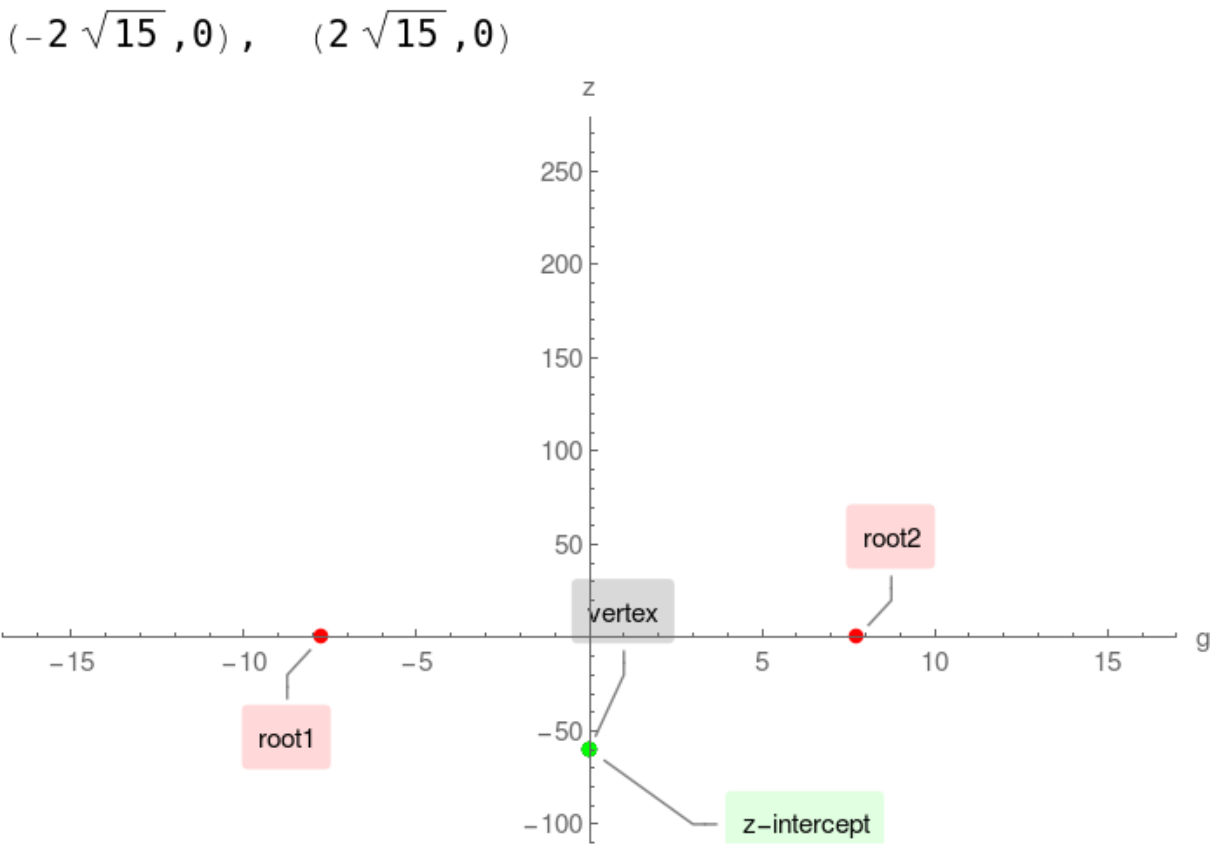
z-intercept$=(0,-60)$




## Step 3.

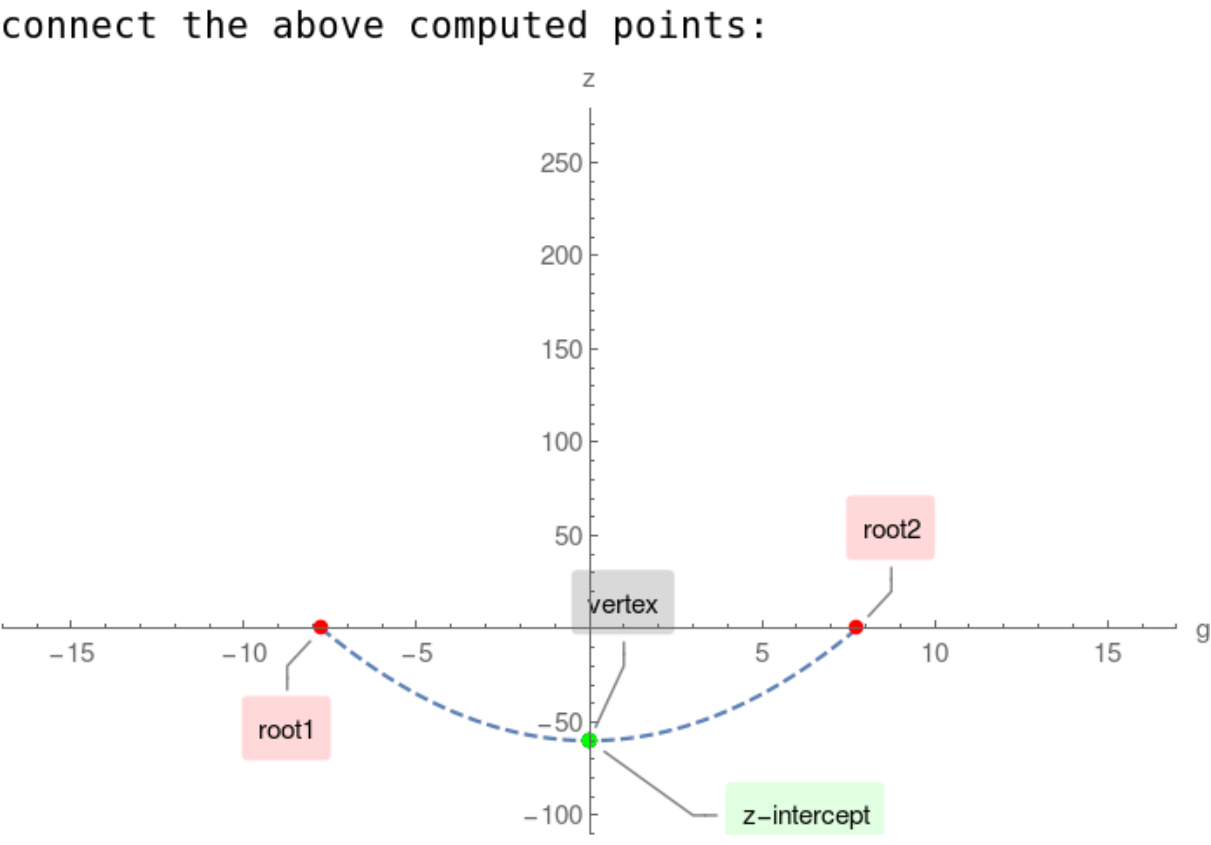
Compute g-intercepts by solving $g^2-60=0$:

$(-2\sqrt{15},0)$, $(2\sqrt{15},0)$




## Step 4.

connect the above computed points:




## Step 5.

Extend the parabola beyond the range of intercepts