

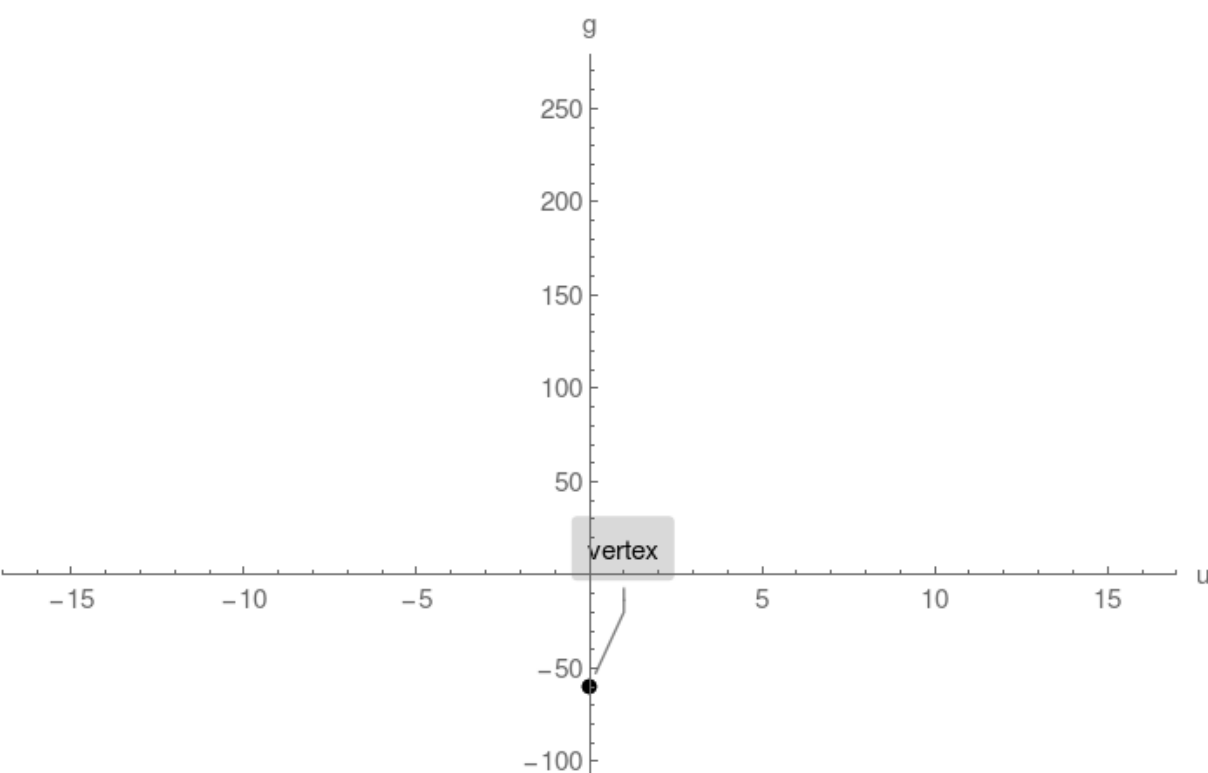
Example 1. 2 horizontal intercepts found

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

Step 1.

Compute vertex and plot single point:

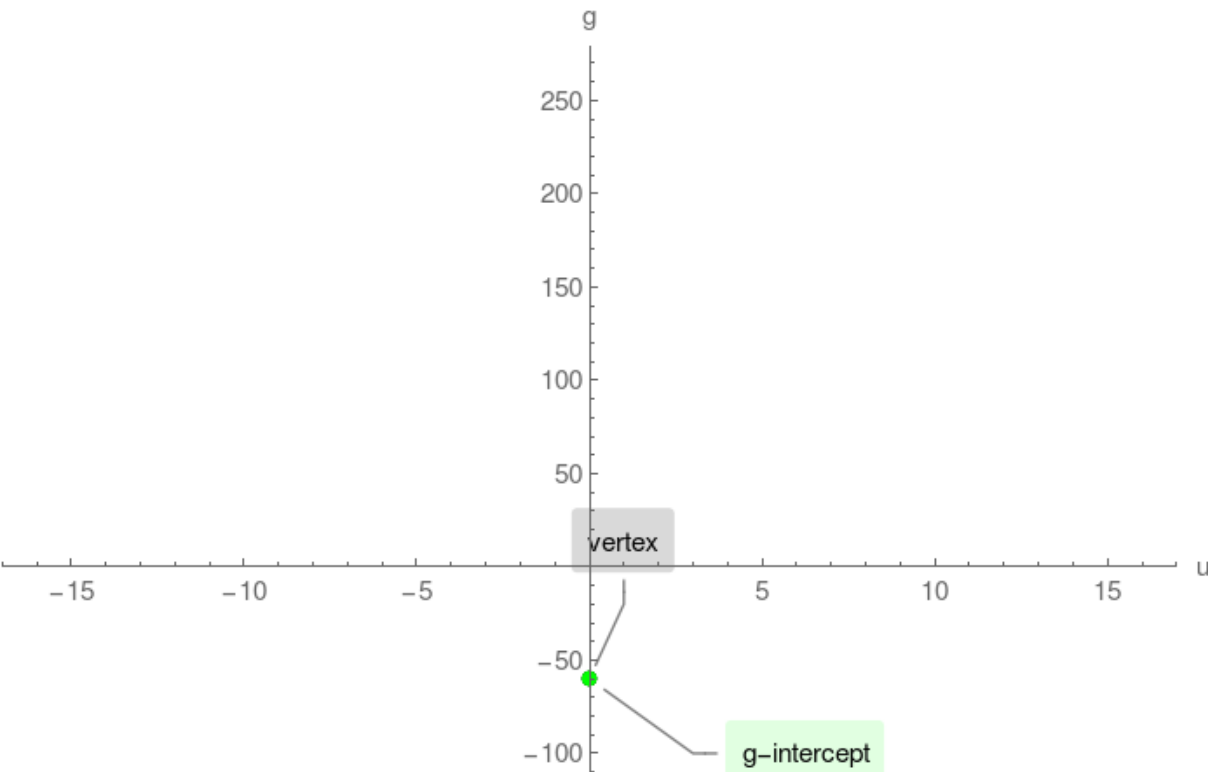
vertex = $(0, -60)$



Step 2.

Compute g-intercept and plot single point:

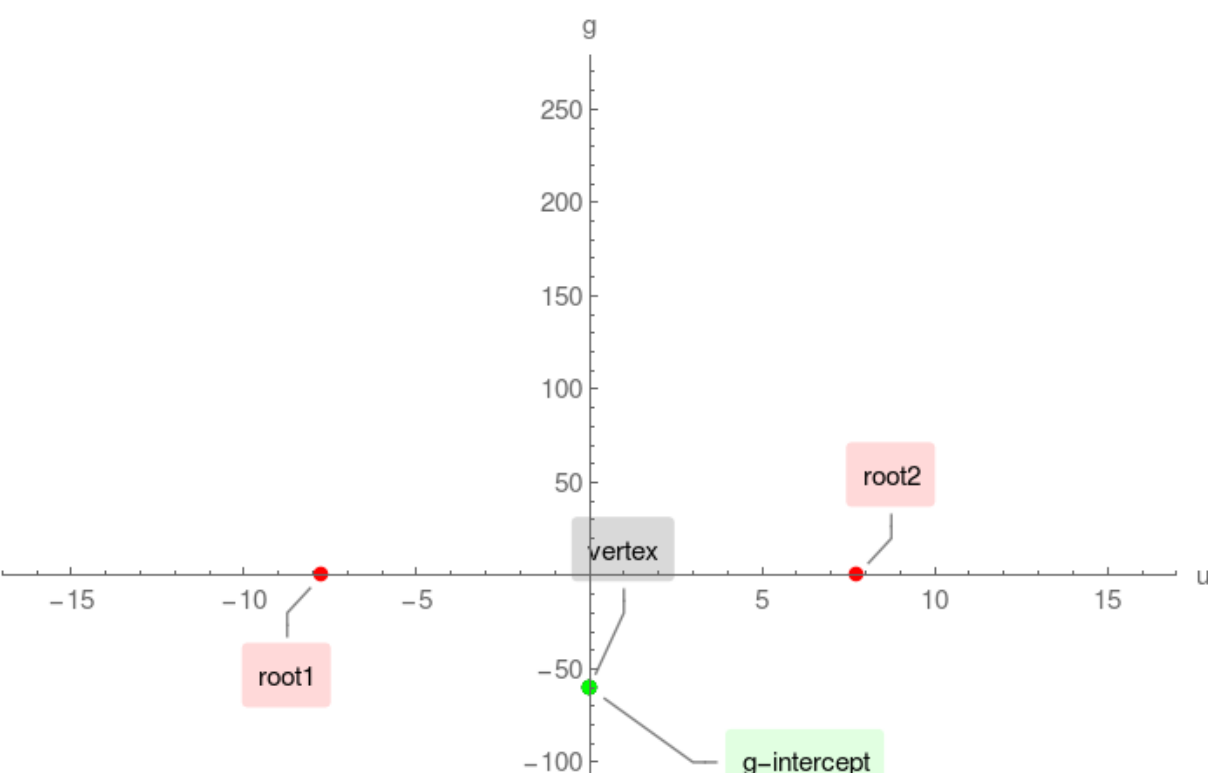
g-intercept = $(0, -60)$



Step 3.

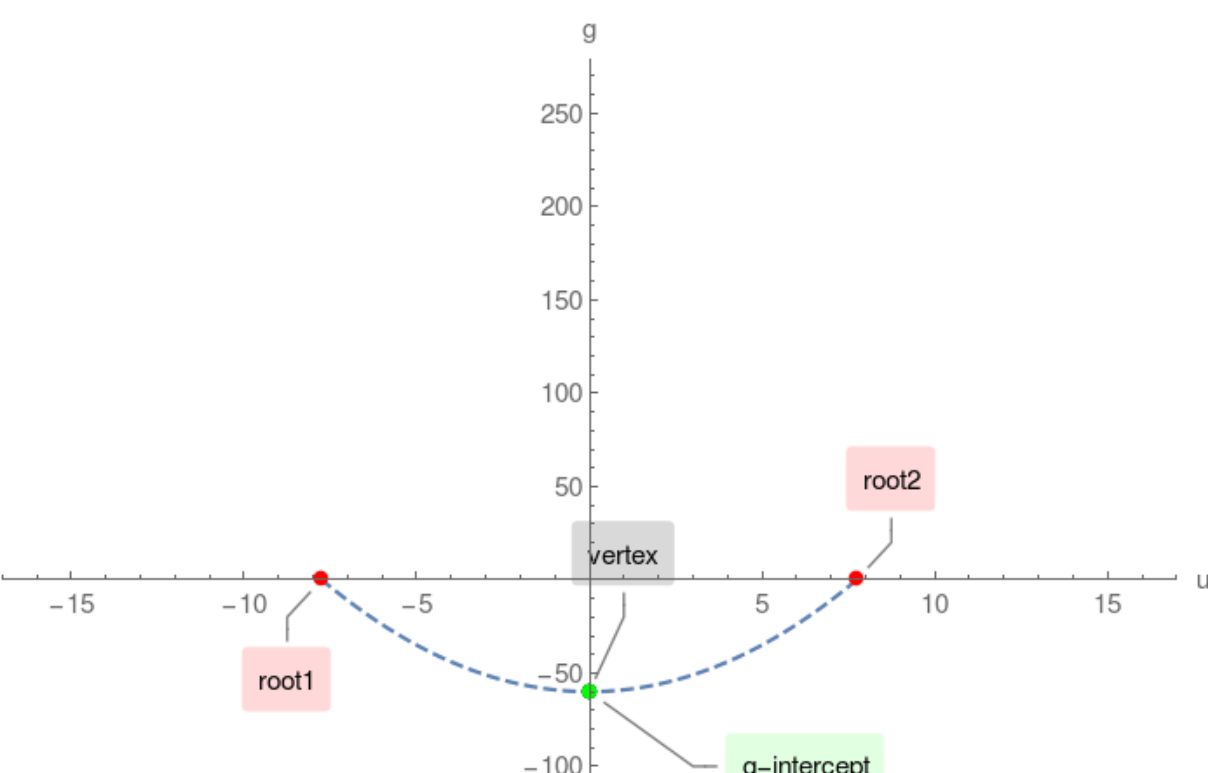
Compute u-intercepts by solving $u^2 - 60 = 0$:

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



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts

