

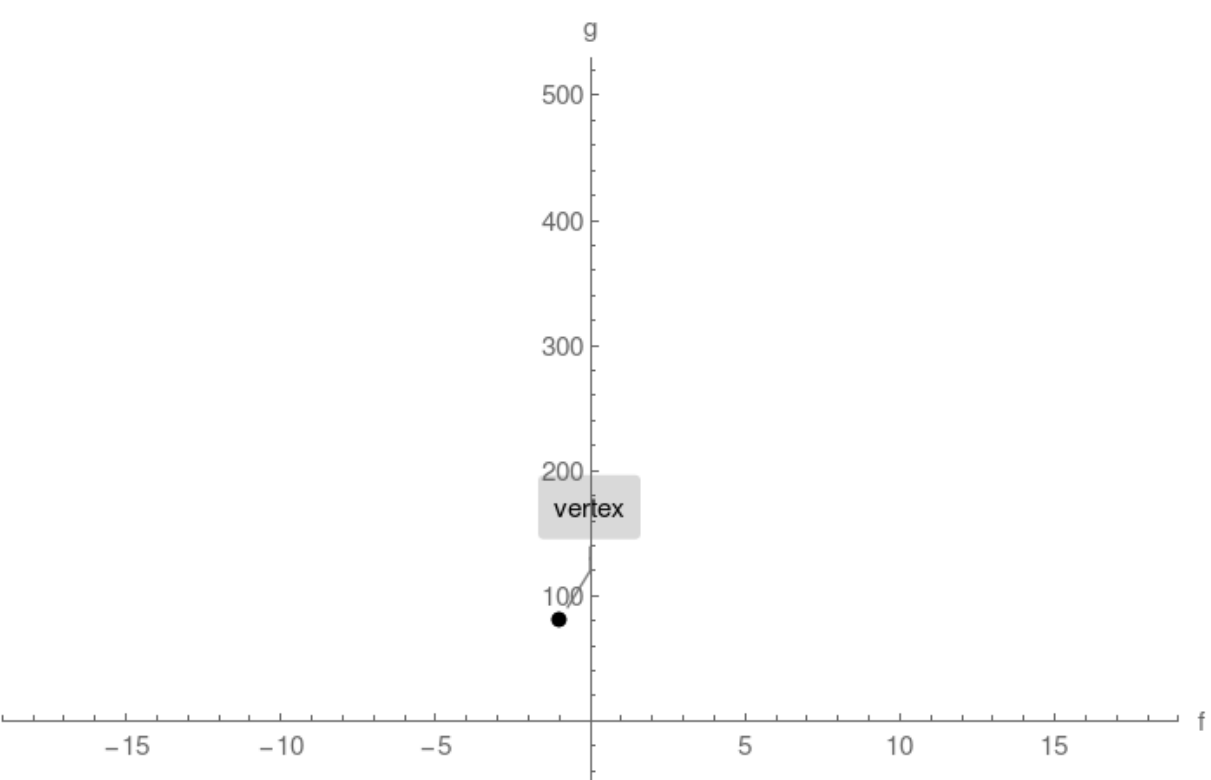
Example 2. No horizontal intercepts found

Plot $g(f) = f^2 + 2f + 81$

Step 1.

Compute vertex and plot single point:

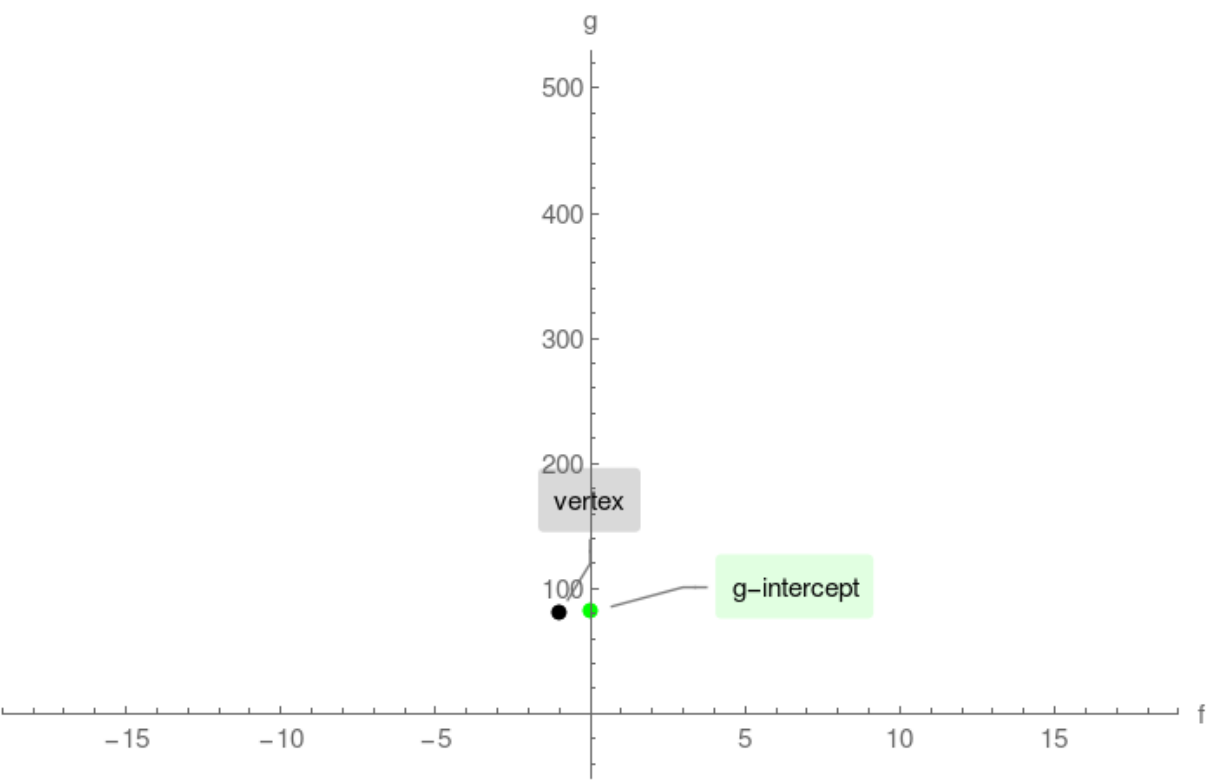
vertex = $(-1, 80)$



Step 2.

Compute g-intercept and plot single point:

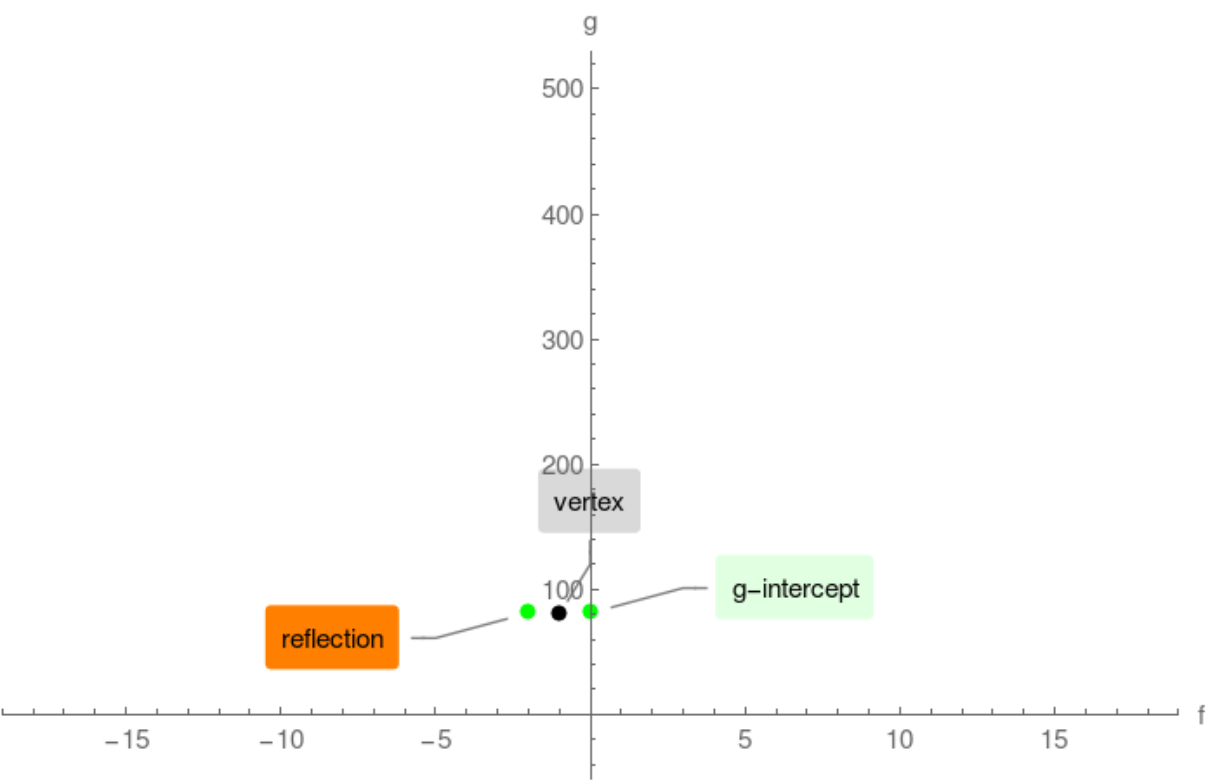
g-intercept = $(0, 81)$



Step 3.

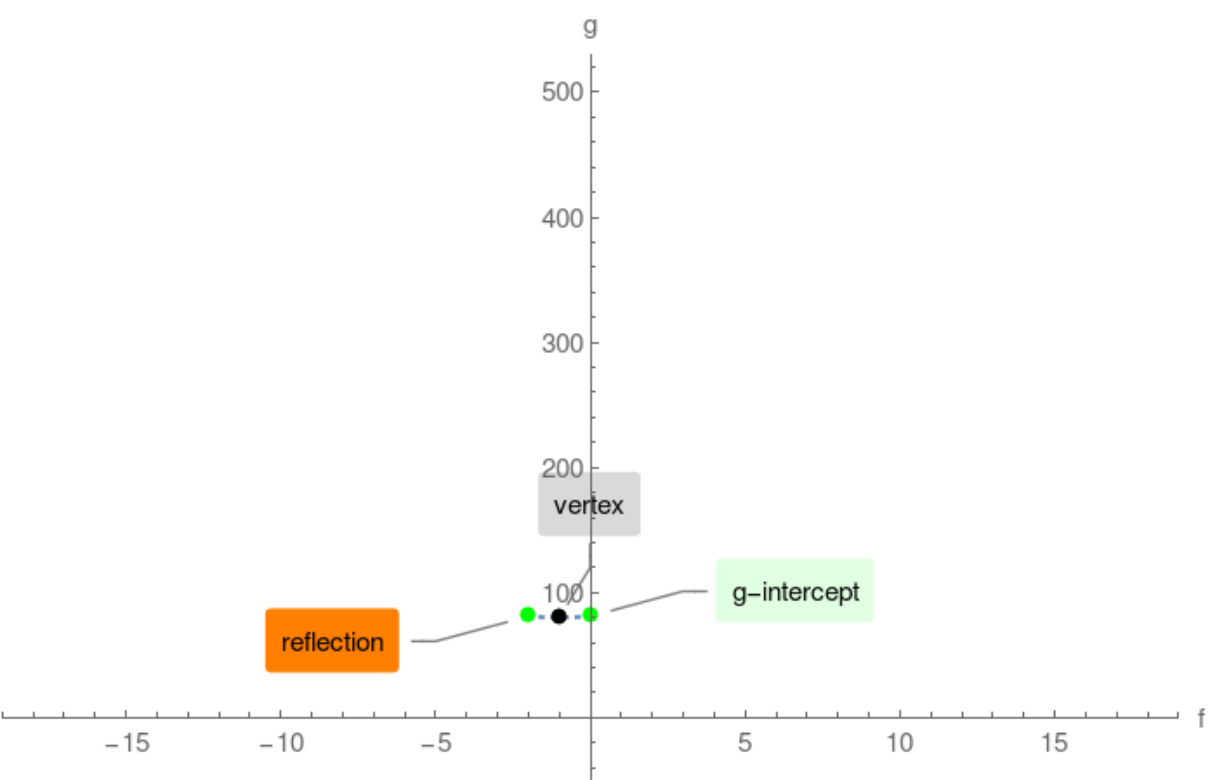
Compute g-intercept reflected against vertex,

reflection = $(-2, 81)$



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts

