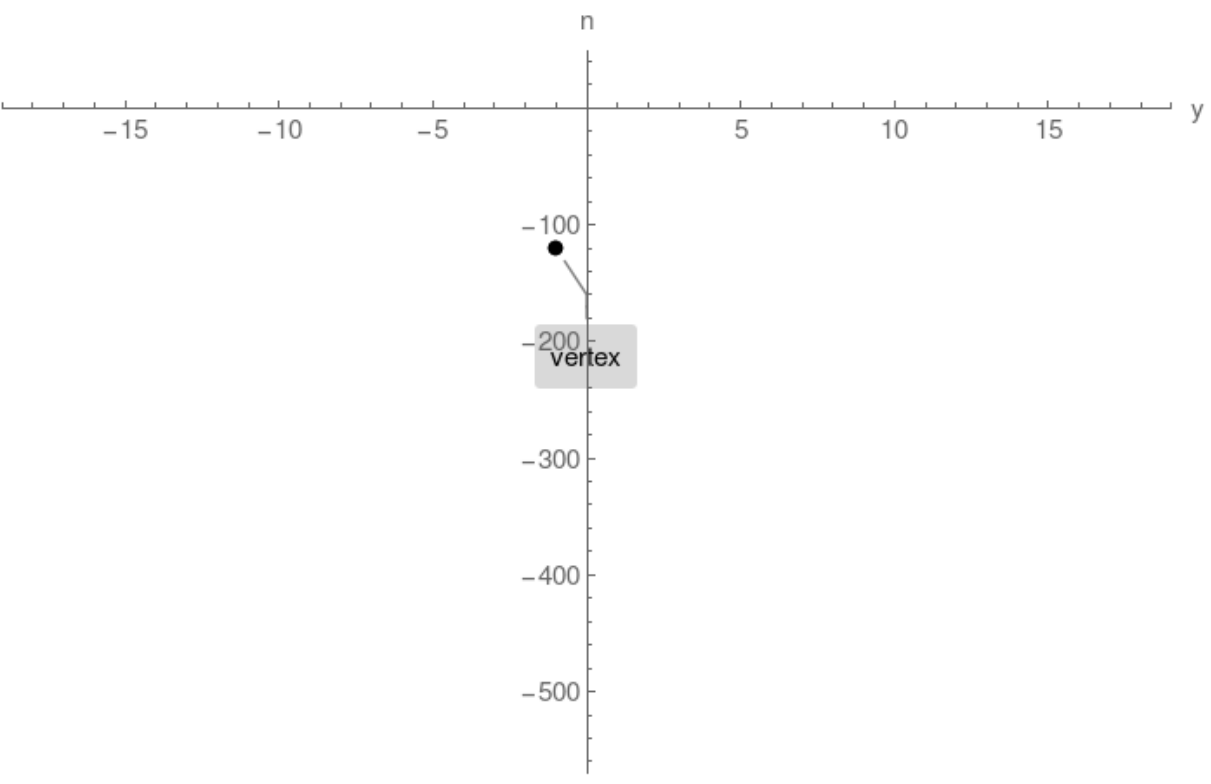
Example 2. No horizontal intercepts found

Plot $n(y) = -y^2 - 2y - 121$

Step 1.

Compute vertex and plot single point:

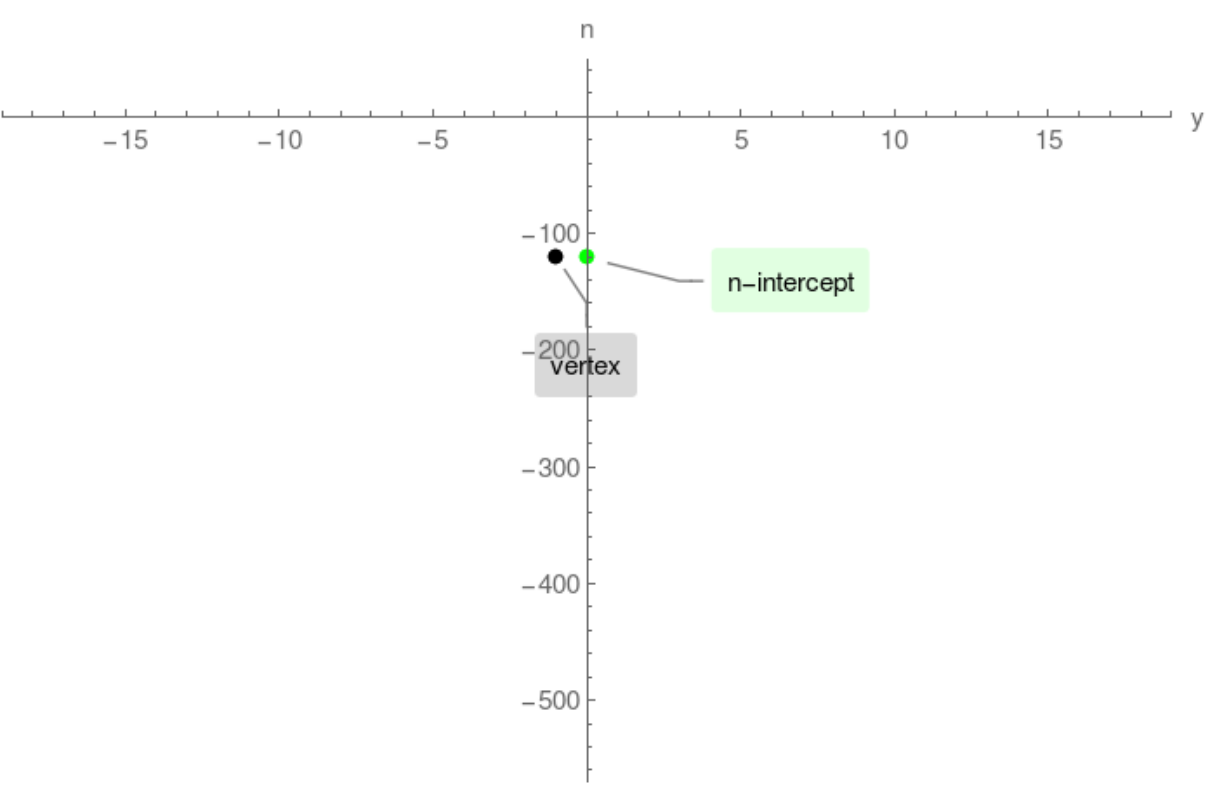
vertex$=(-1,-120)$



Step 2.

Compute n-intercept and plot single point:

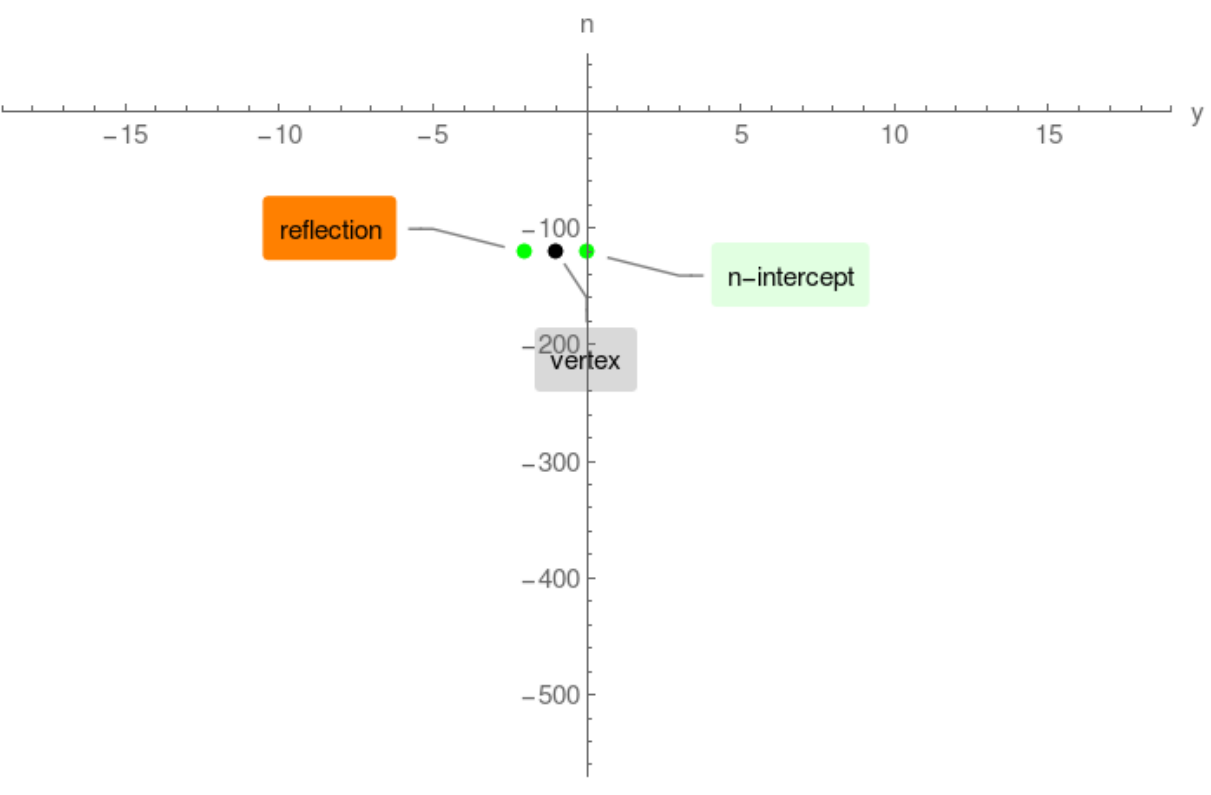
n-intercept$=(0,-121)$



Step 3.

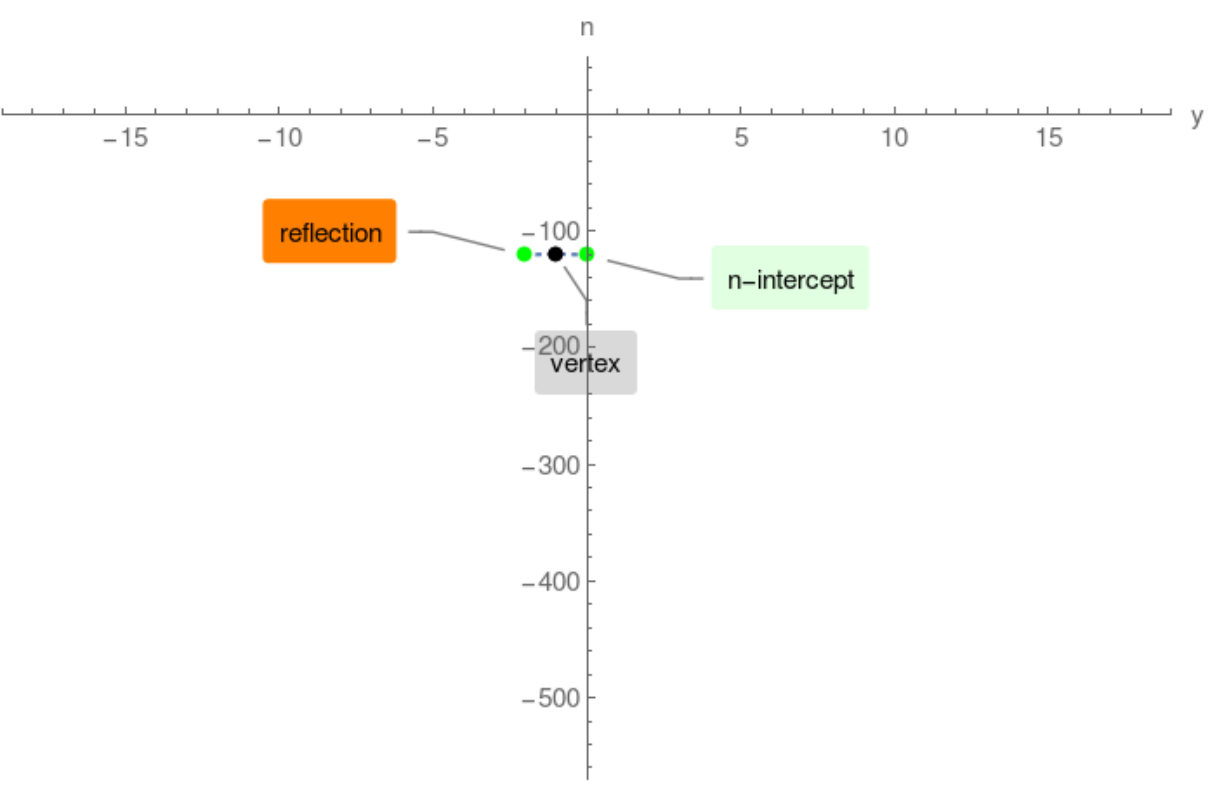
Compute n-intercept reflected against vertex,

reflection$=(-2,-121)$



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts