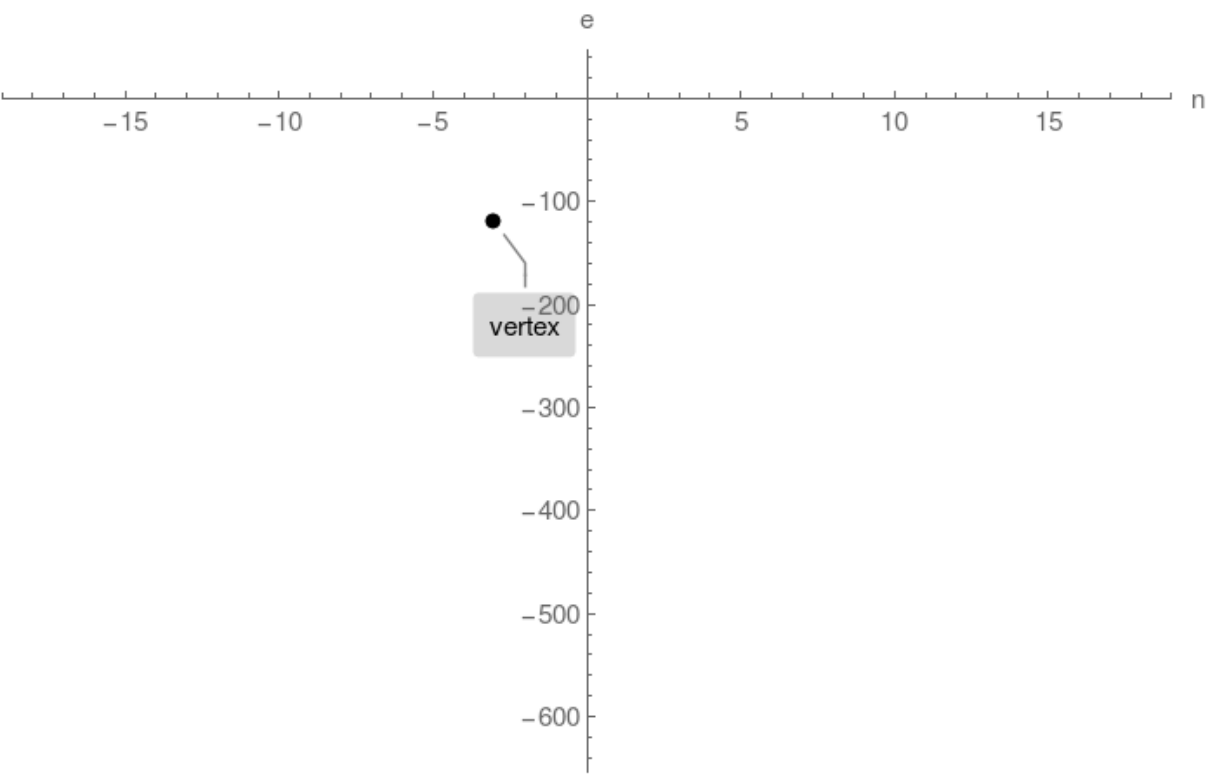
Example 2. No horizontal intercepts found

Plot $e(n) = -n^2 - 6n - 129$

Step 1.

Compute vertex and plot single point:

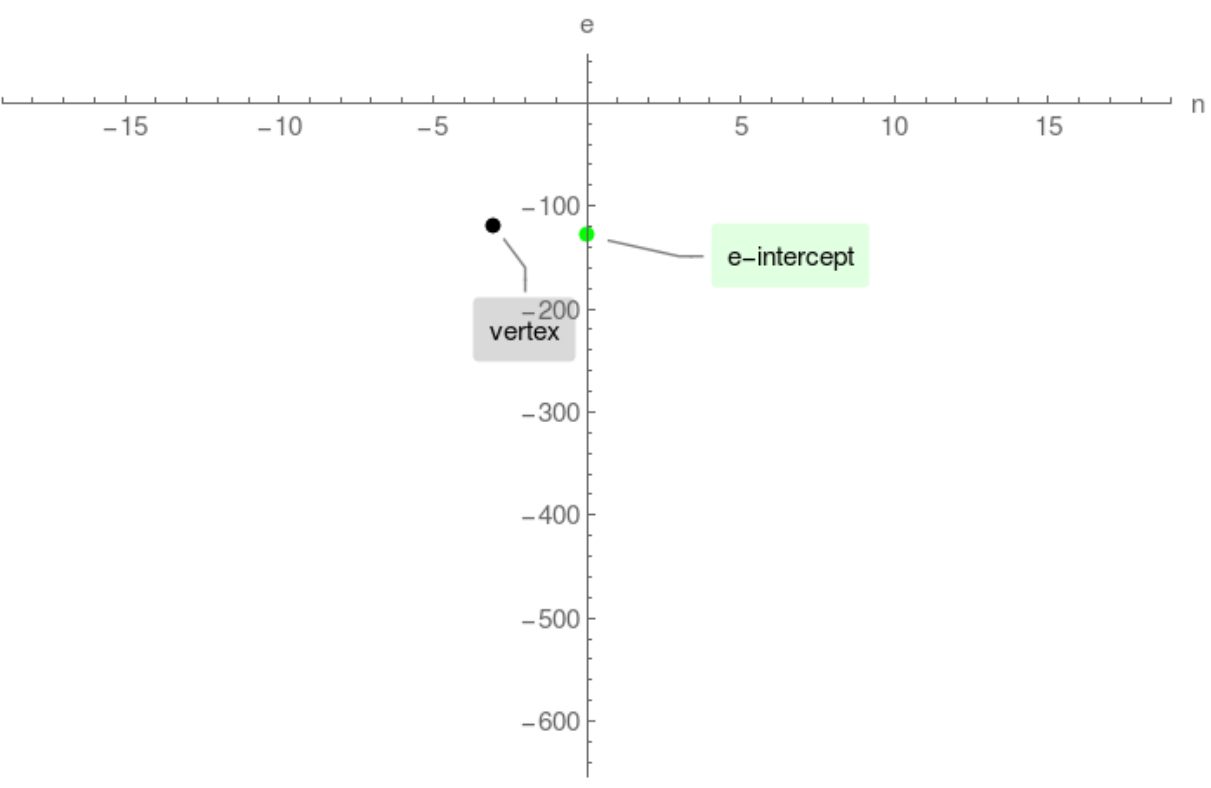
vertex$= (-3, -120)$



Step 2.

Compute e-intercept and plot single point:

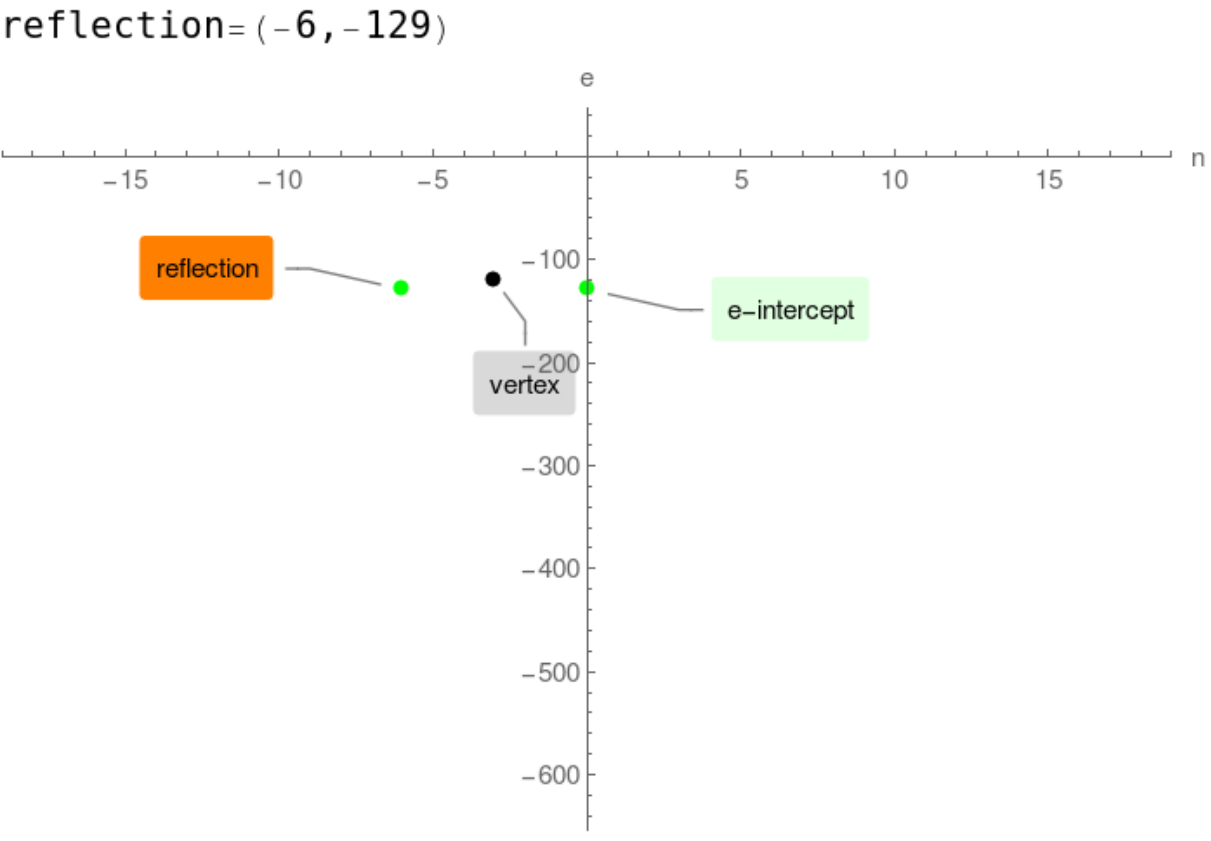
e-intercept$= (0, -129)$



Step 3.

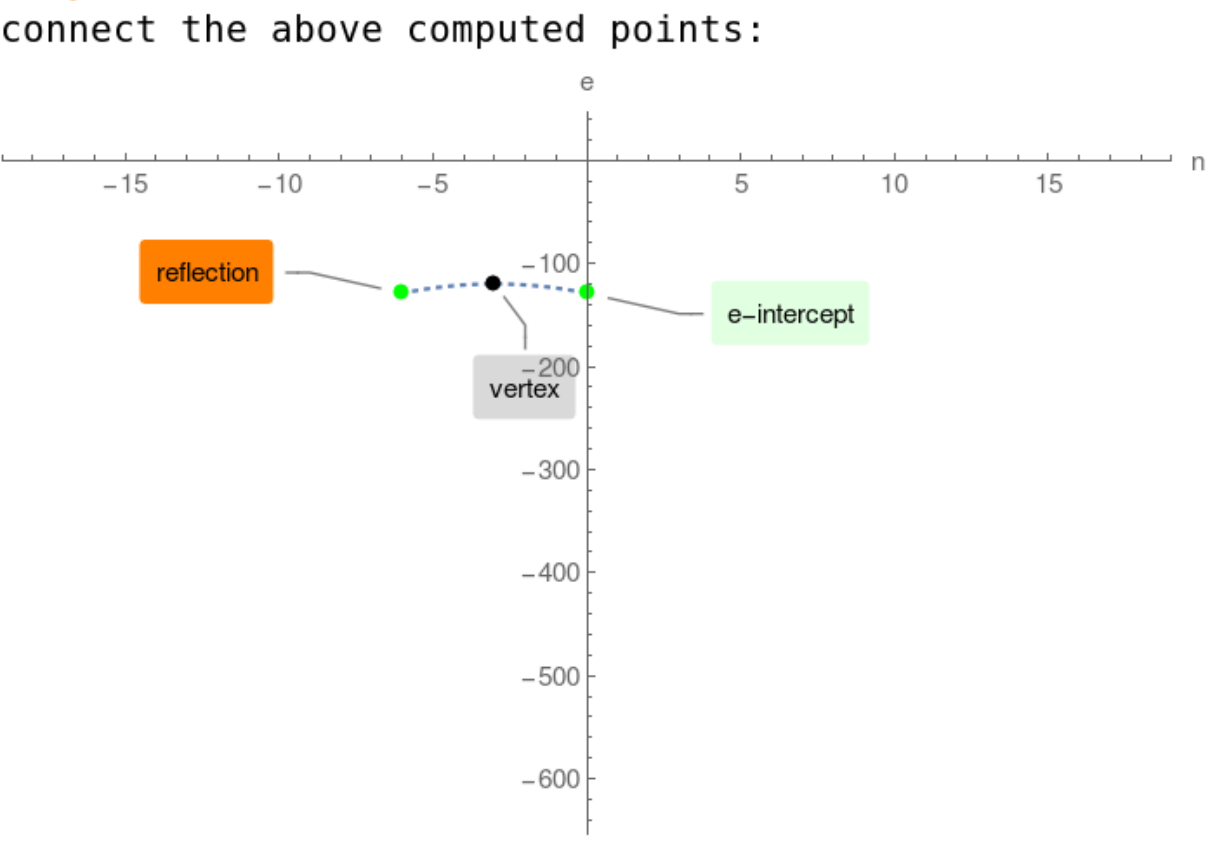
Compute e-intercept reflected against vertex,

reflection$= (-6, -129)$



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts