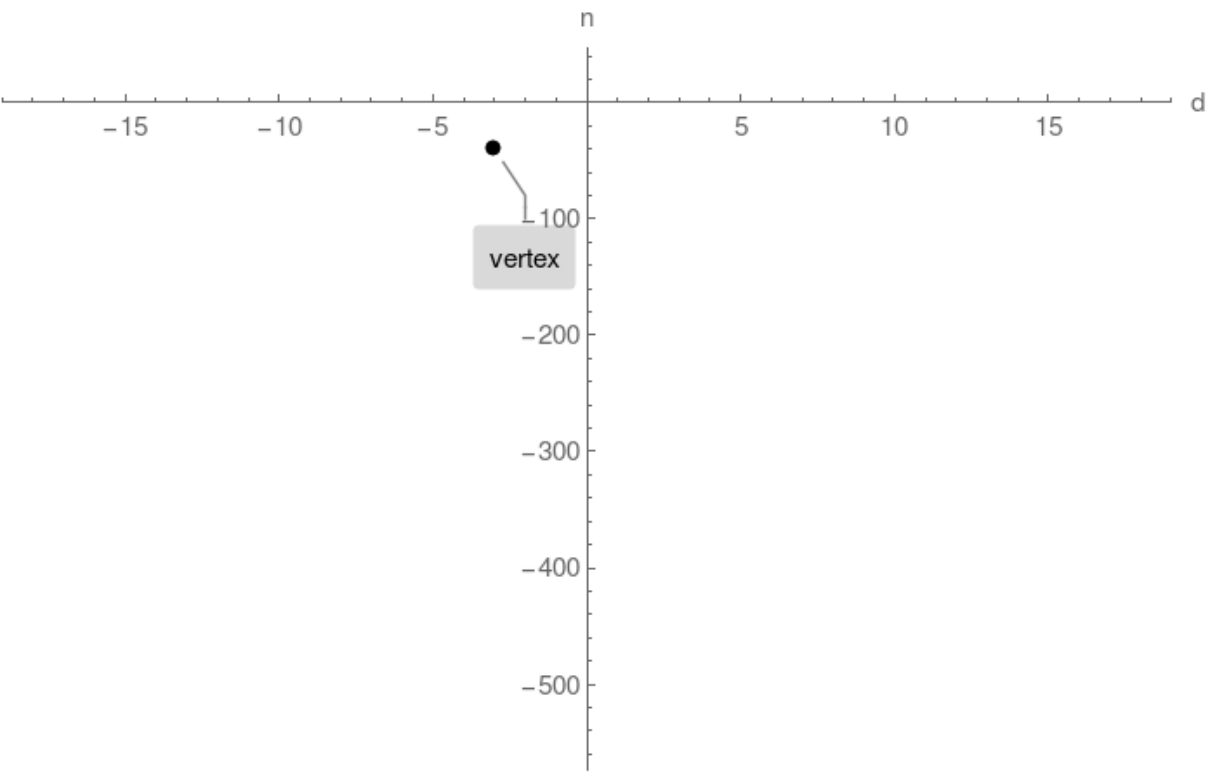
Example 2. No horizontal intercepts found

Plot $n(d) = -d^2 - 6d - 49$

Step 1.

Compute vertex and plot single point:

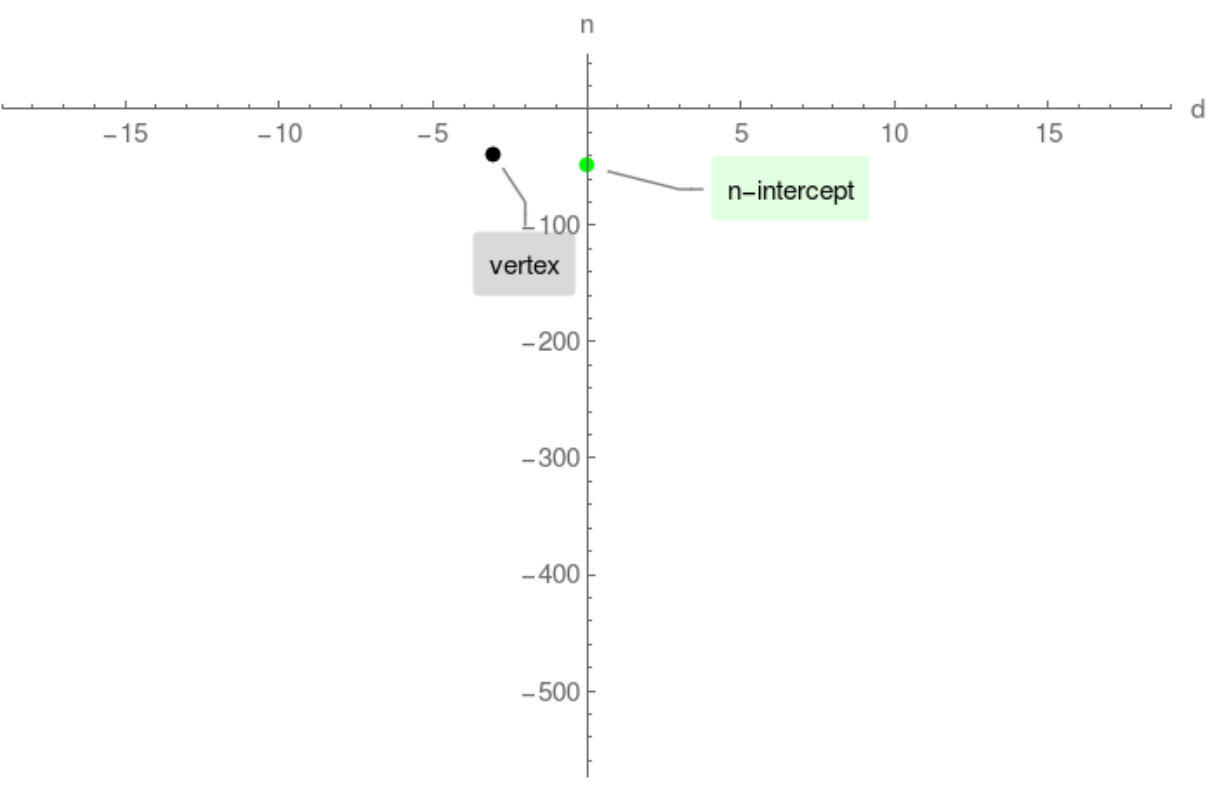
vertex$=(-3,-40)$



Step 2.

Compute n-intercept and plot single point:

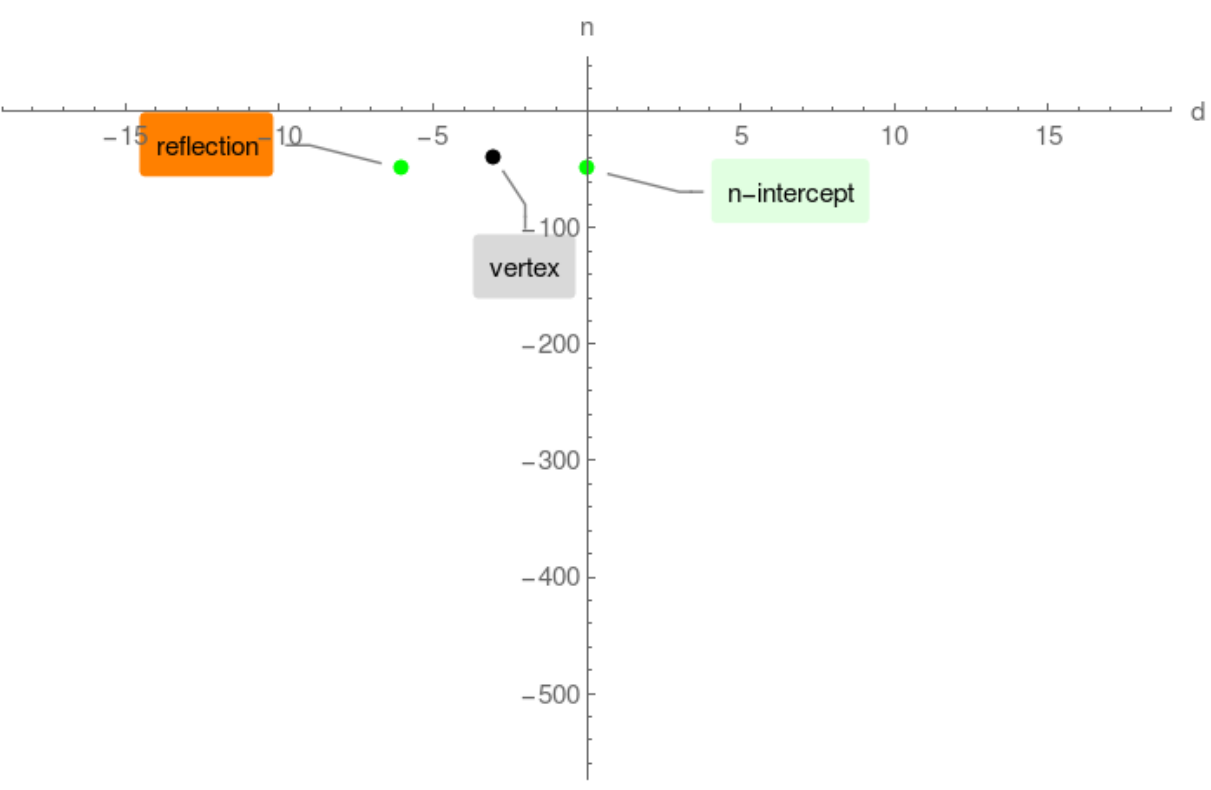
n-intercept$=(0,-49)$



Step 3.

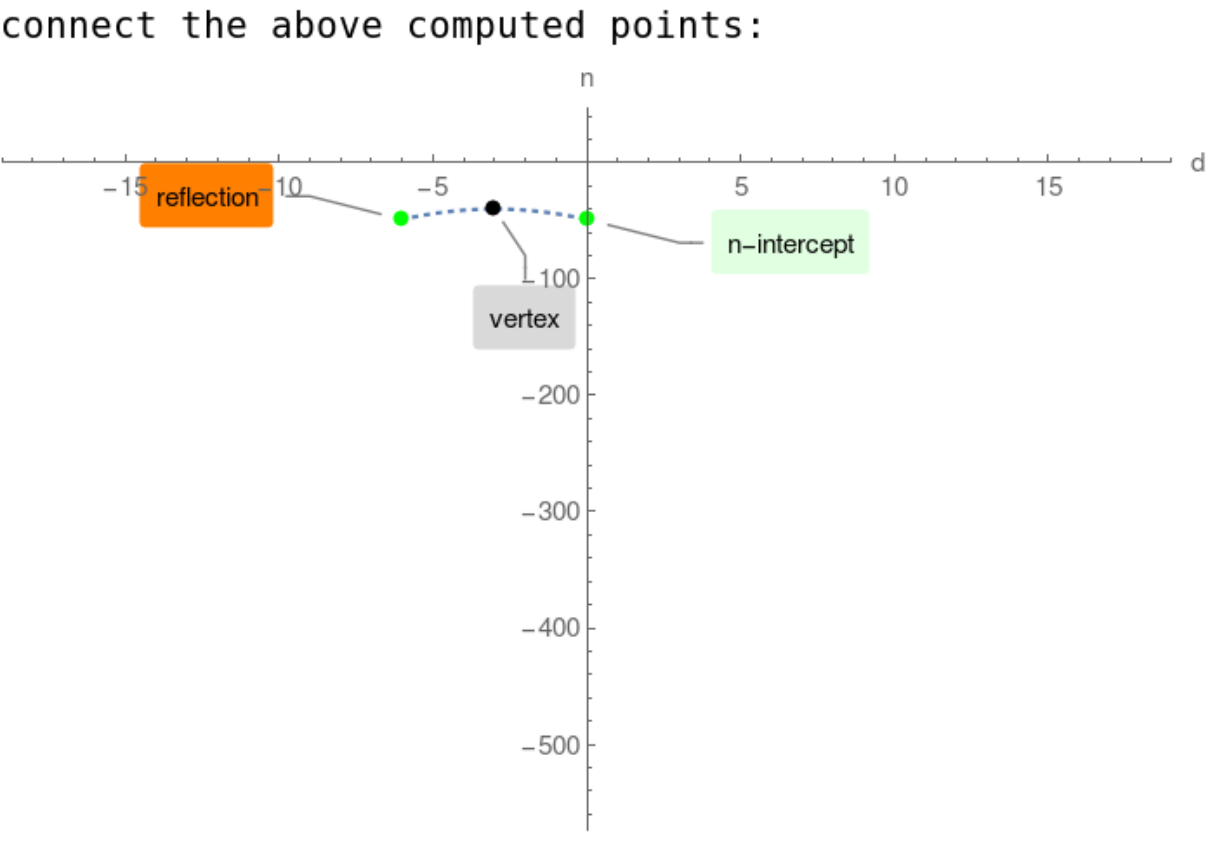
Compute n-intercept reflected against vertex,

reflection$=(-6,-49)$



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts