

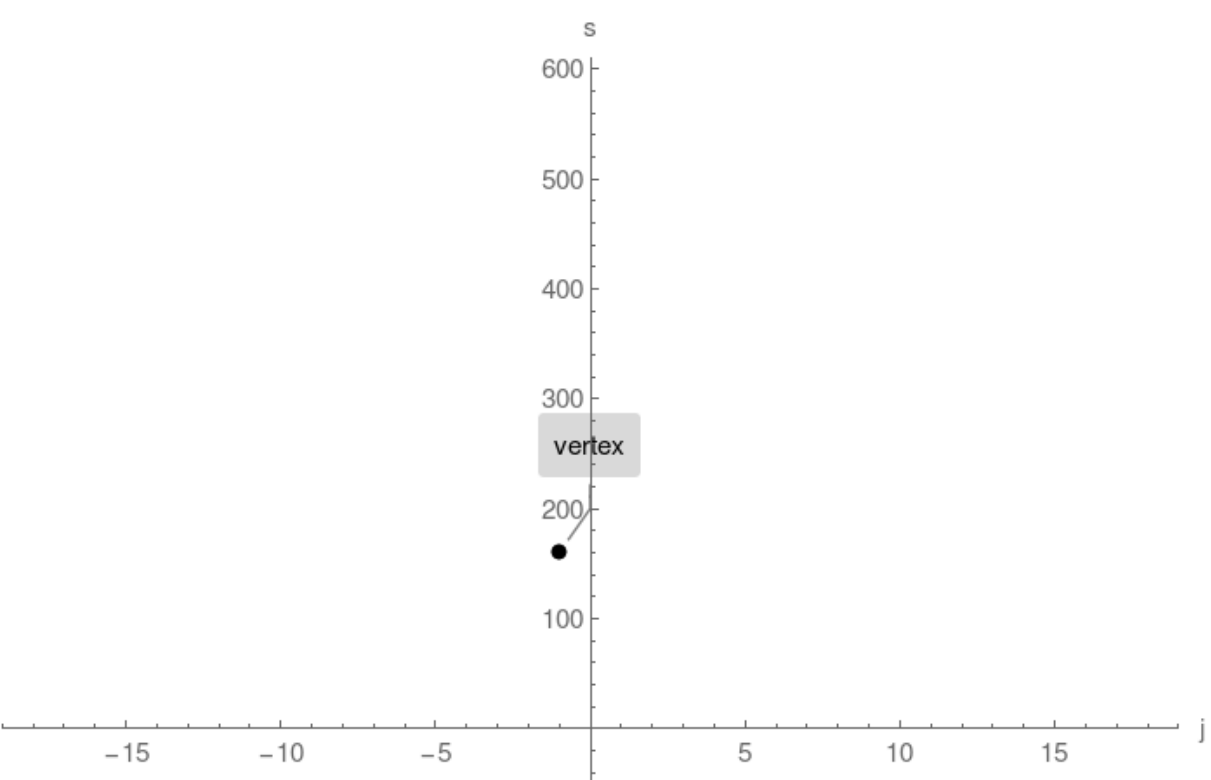
Example 2. No horizontal intercepts found

Plot $s(j) = j^2 + 2j + 161$

Step 1.

Compute vertex and plot single point:

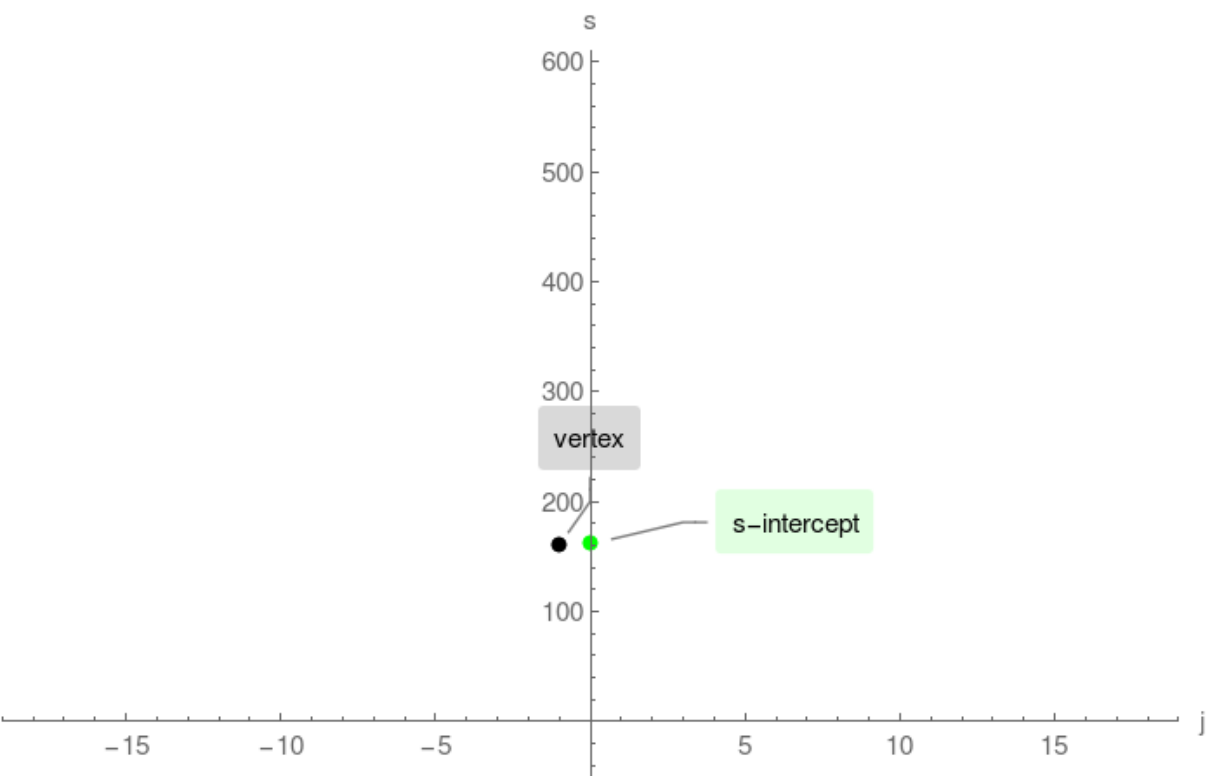
vertex = $(-1, 160)$



Step 2.

Compute s-intercept and plot single point:

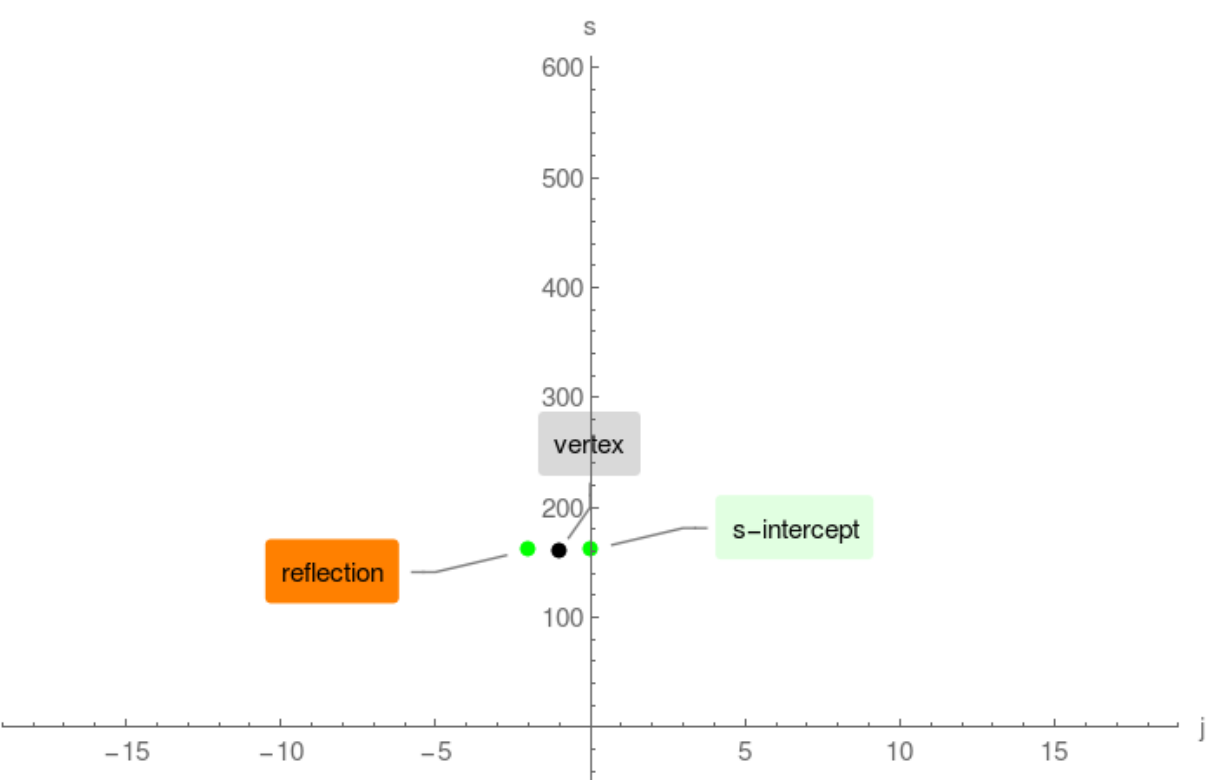
s-intercept = $(0, 161)$



Step 3.

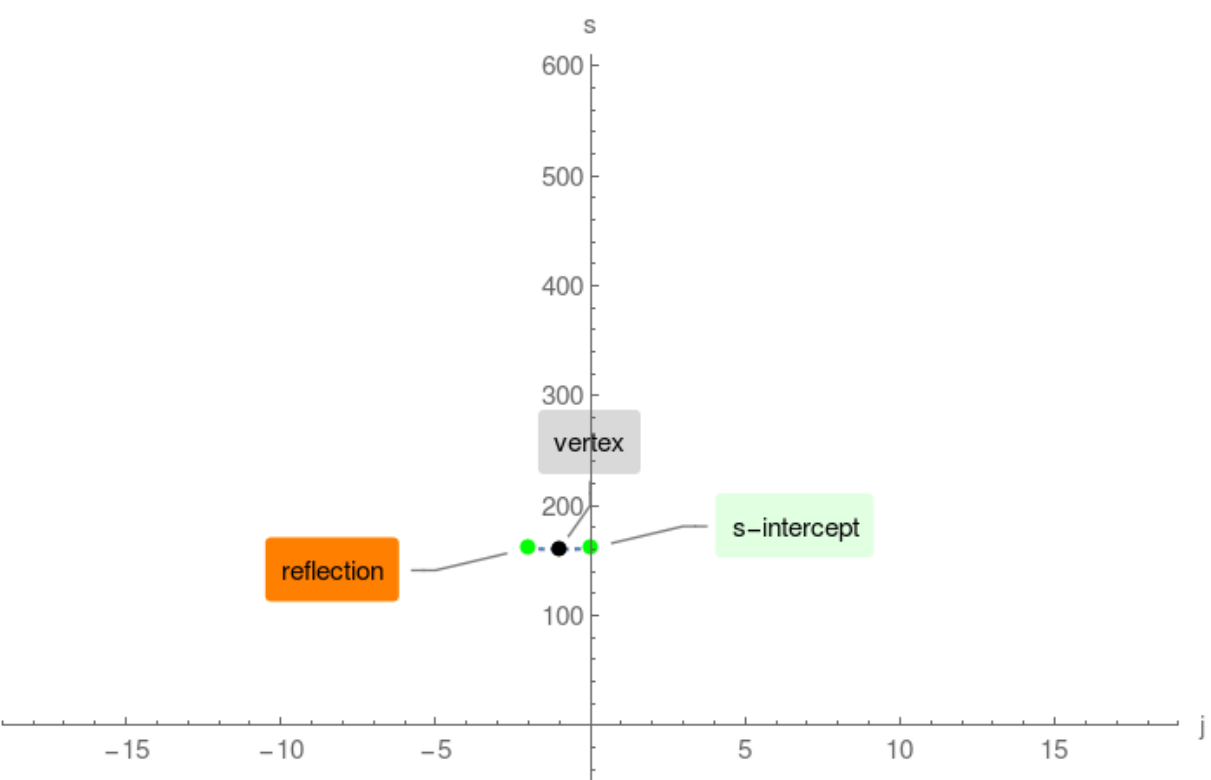
Compute s-intercept reflected against vertex,

reflection = $(-2, 161)$



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts

