

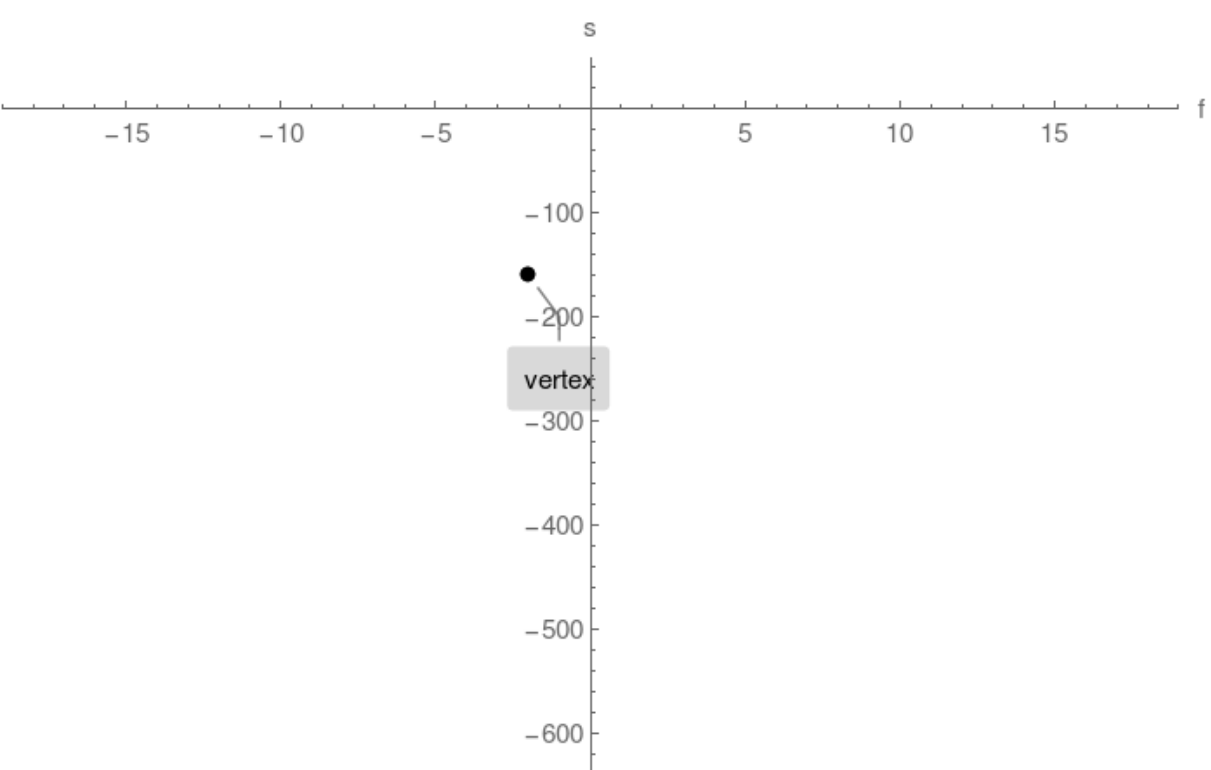
Example 2. No horizontal intercepts found

Plot $s(f) = -f^2 - 4f - 164$

Step 1.

Compute vertex and plot single point:

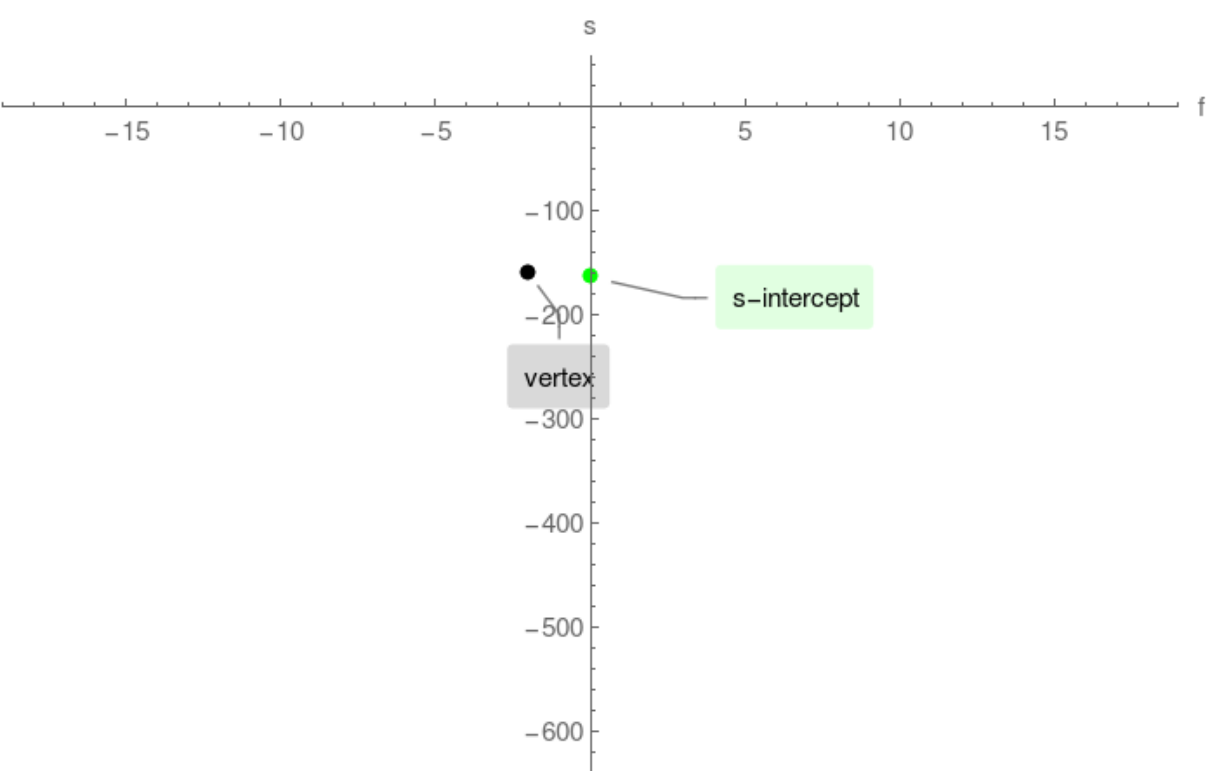
vertex = $(-2, -160)$



Step 2.

Compute s-intercept and plot single point:

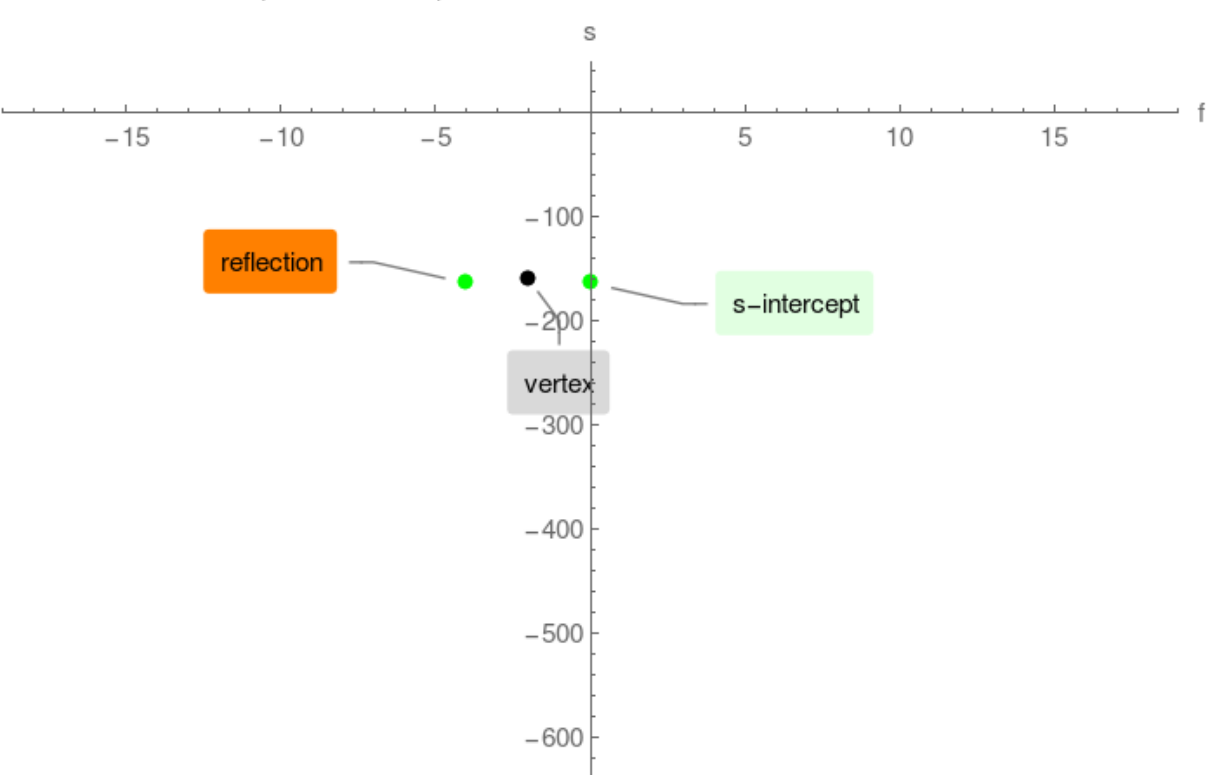
s-intercept = $(0, -164)$



Step 3.

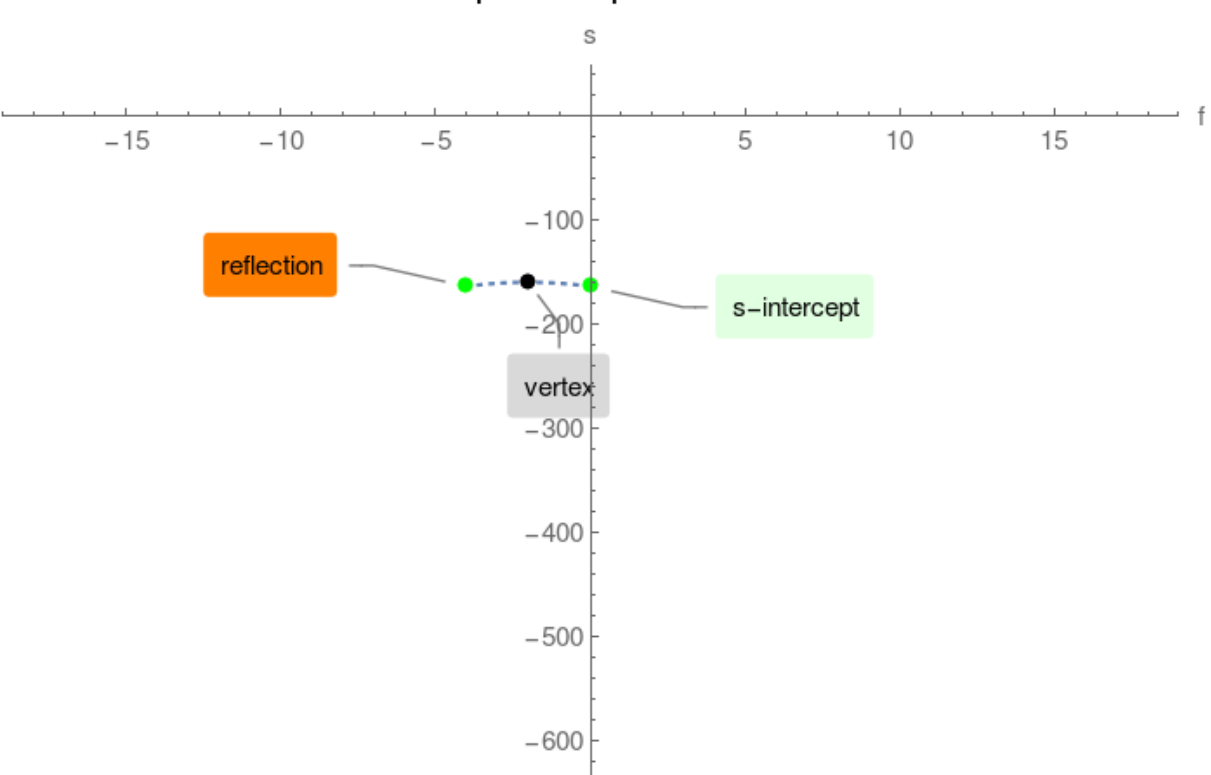
Compute s-intercept reflected against vertex,

reflection = $(-4, -164)$



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts

