

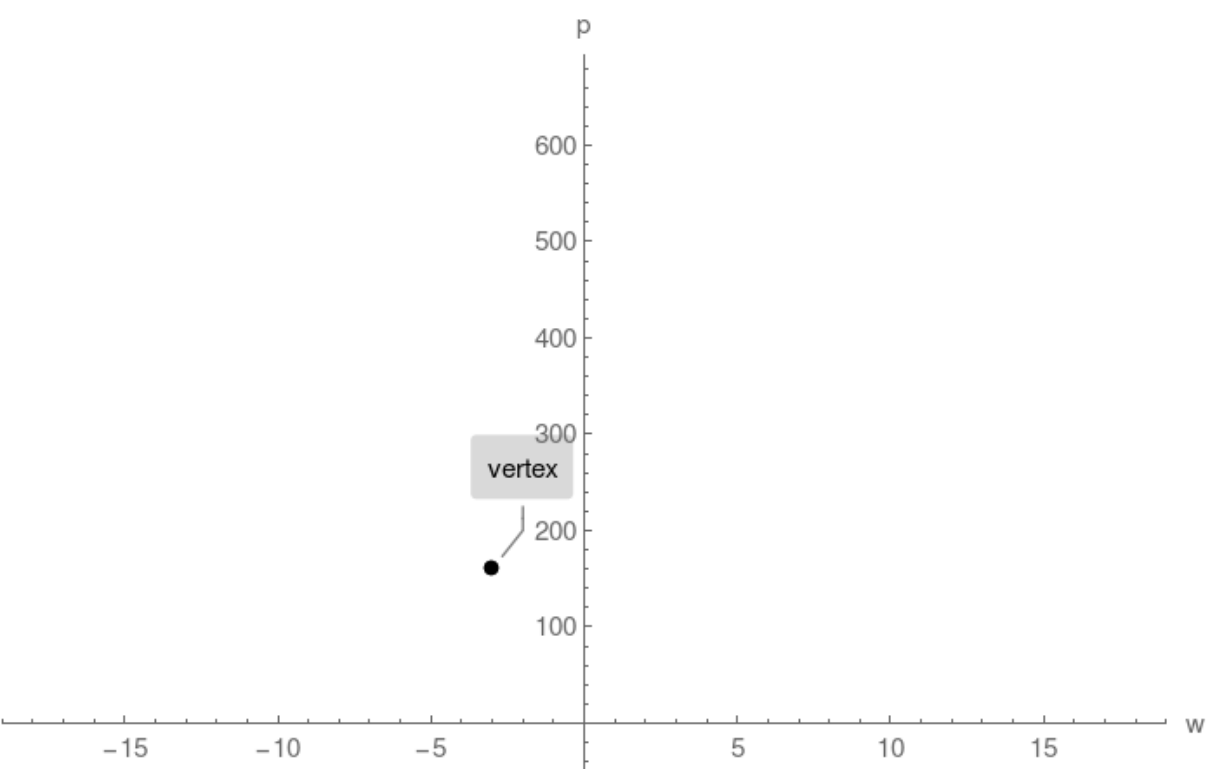
Example 2. No horizontal intercepts found

Plot $p(w) = w^2 + 6w + 169$

Step 1.

Compute vertex and plot single point:

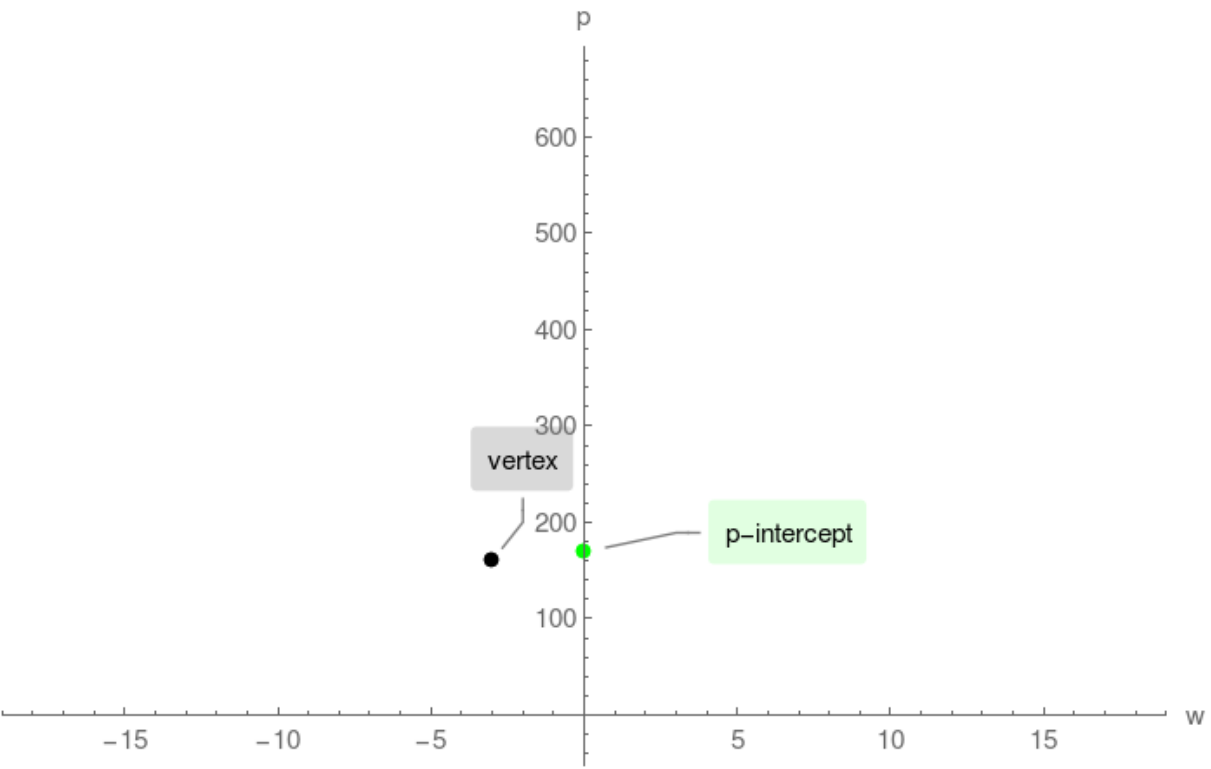
vertex = $(-3, 160)$



Step 2.

Compute p-intercept and plot single point:

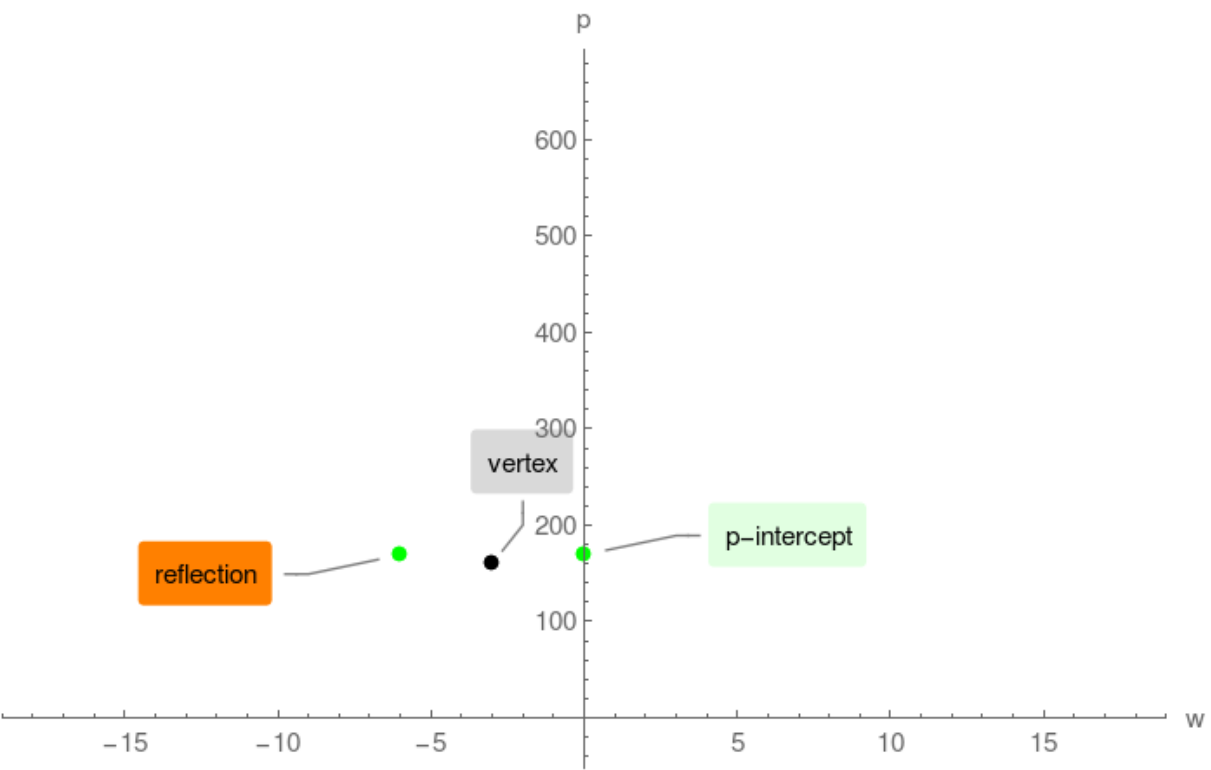
p-intercept = $(0, 169)$



Step 3.

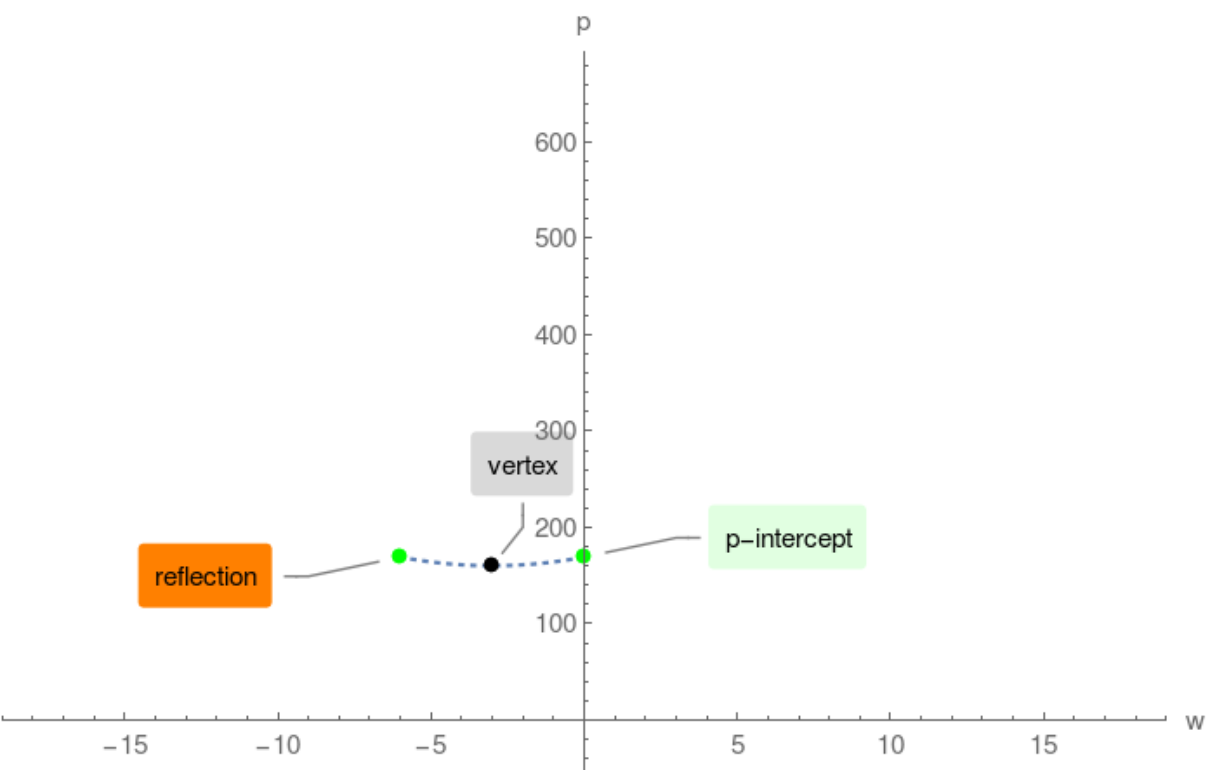
Compute p-intercept reflected against vertex,

reflection = $(-6, 169)$



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts

