

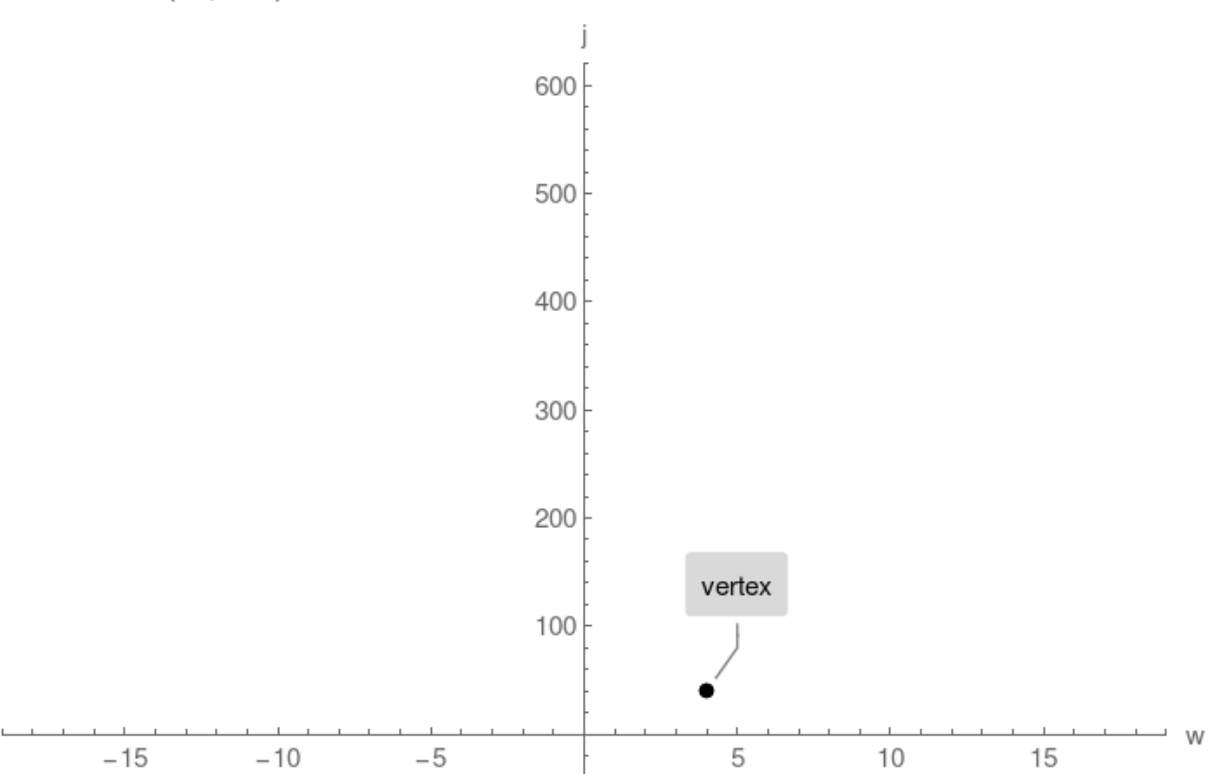
Example 2. No horizontal intercepts found

Plot $j(w) = w^2 - 8w + 56$

Step 1.

Compute vertex and plot single point:

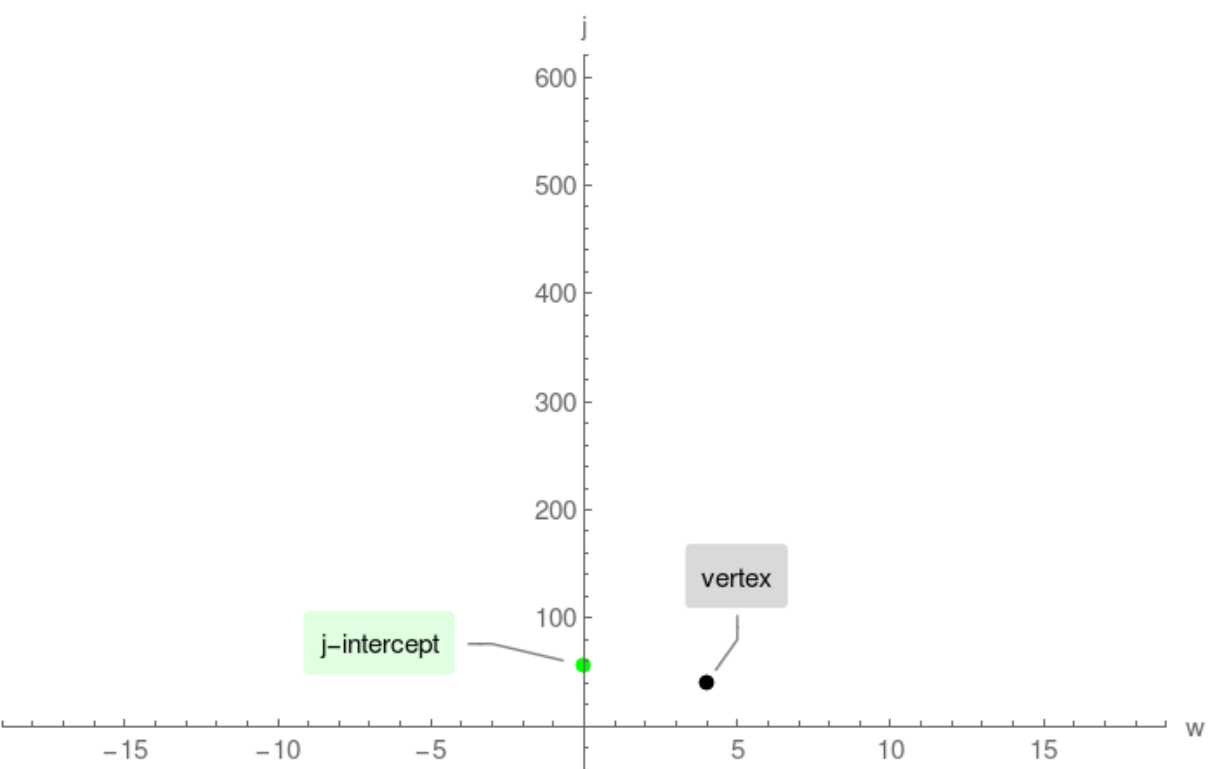
vertex = (4, 40)



Step 2.

Compute j-intercept and plot single point:

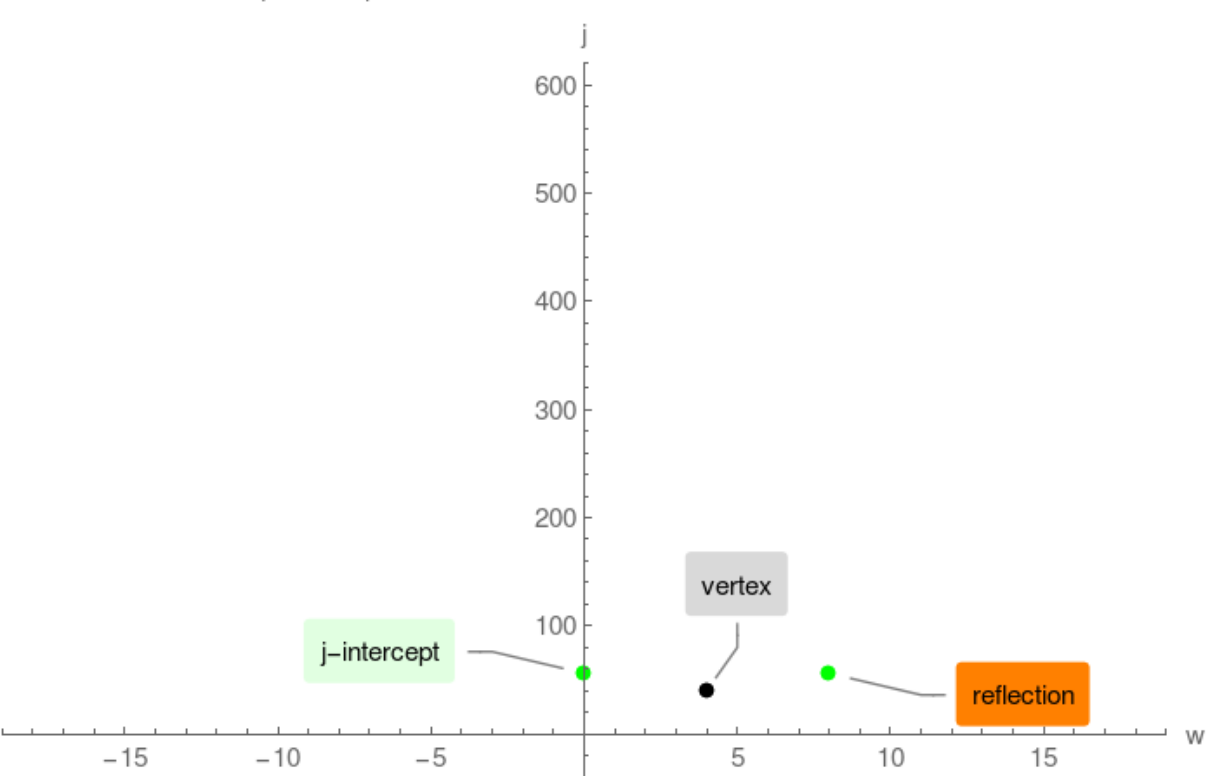
j-intercept = (0, 56)



Step 3.

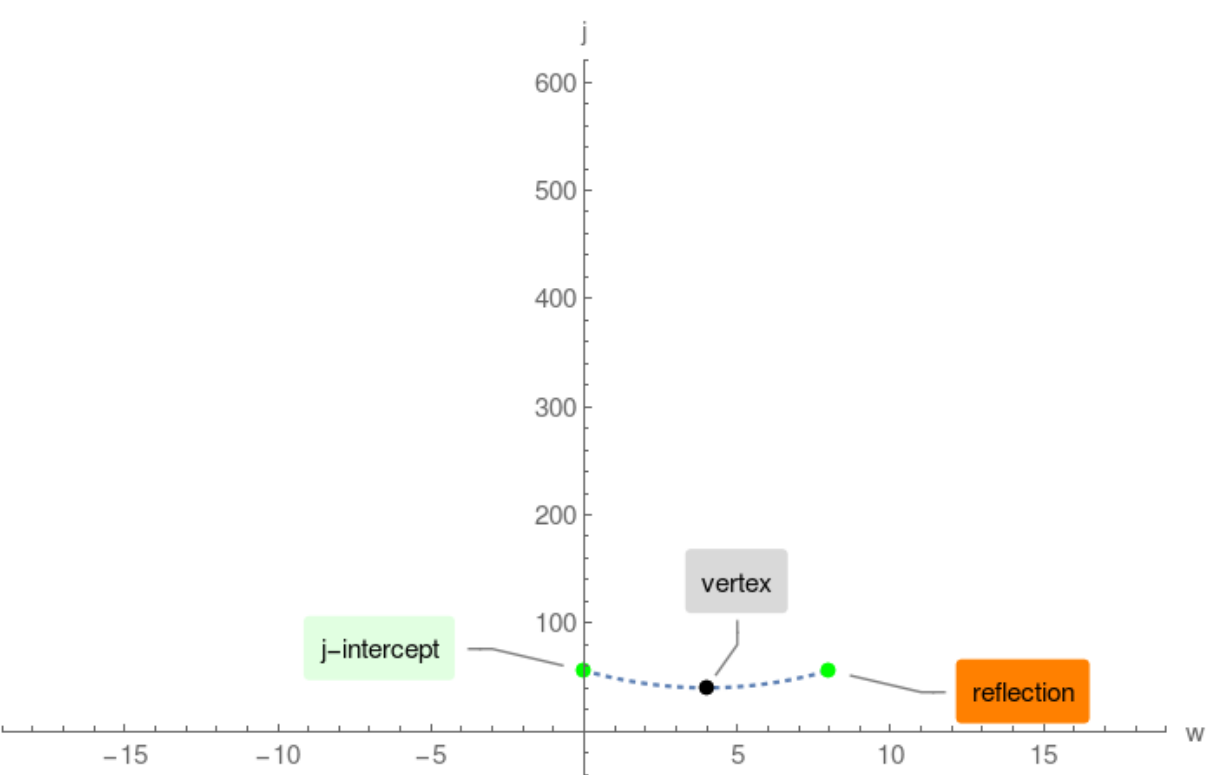
Compute j-intercept reflected against vertex,

reflection = (8, 56)



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts

