

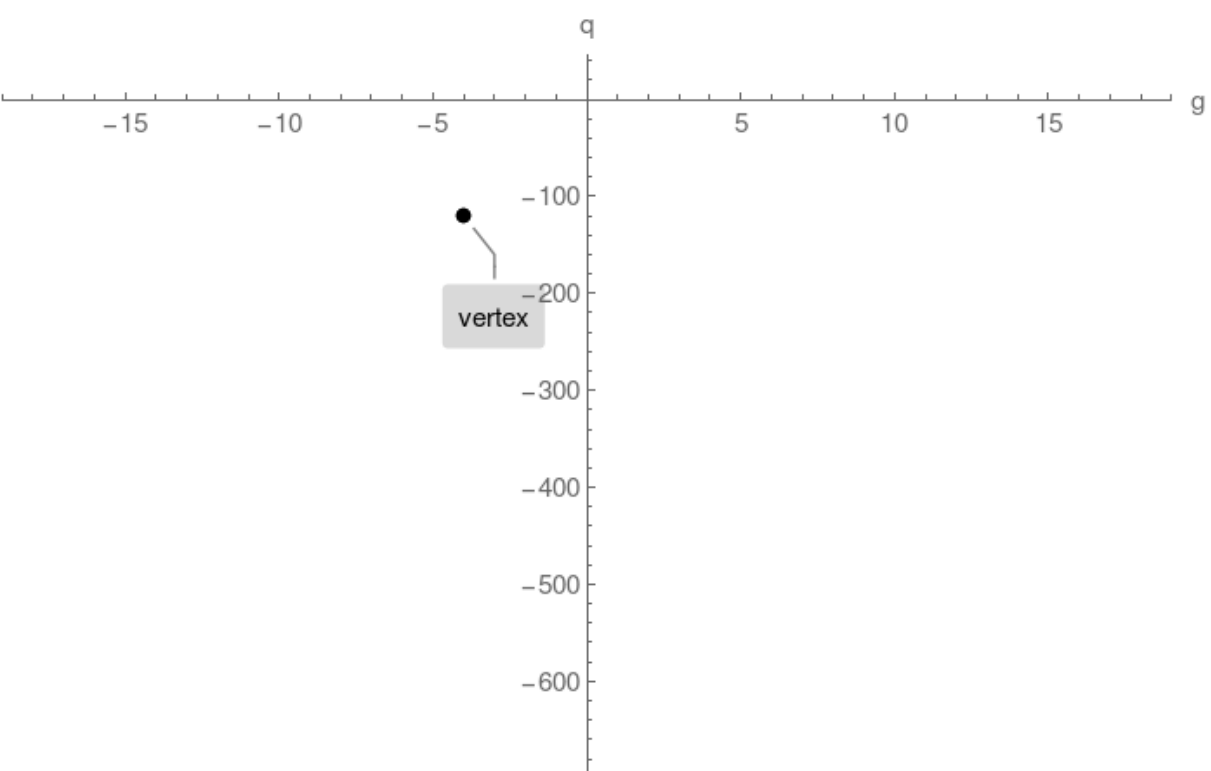
Example 2. No horizontal intercepts found

Plot $q(g) = -g^2 - 8g - 136$

Step 1.

Compute vertex and plot single point:

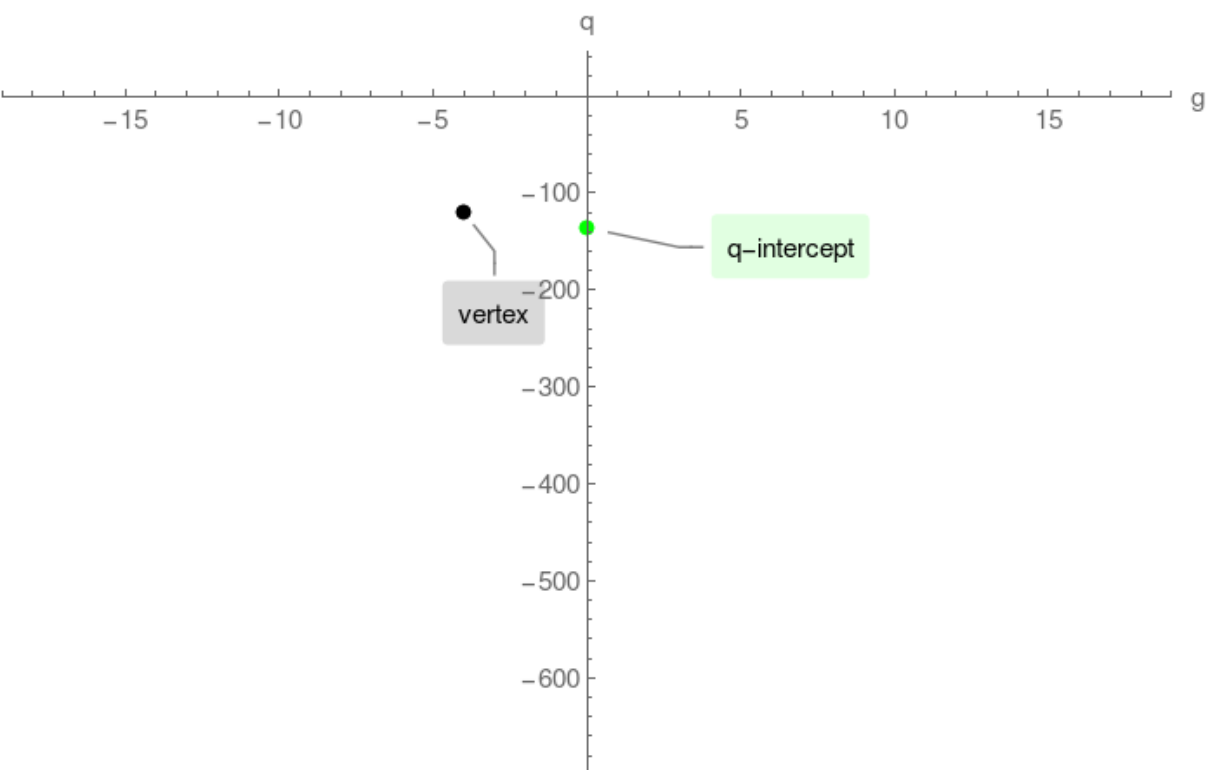
vertex = $(-4, -120)$



Step 2.

Compute q-intercept and plot single point:

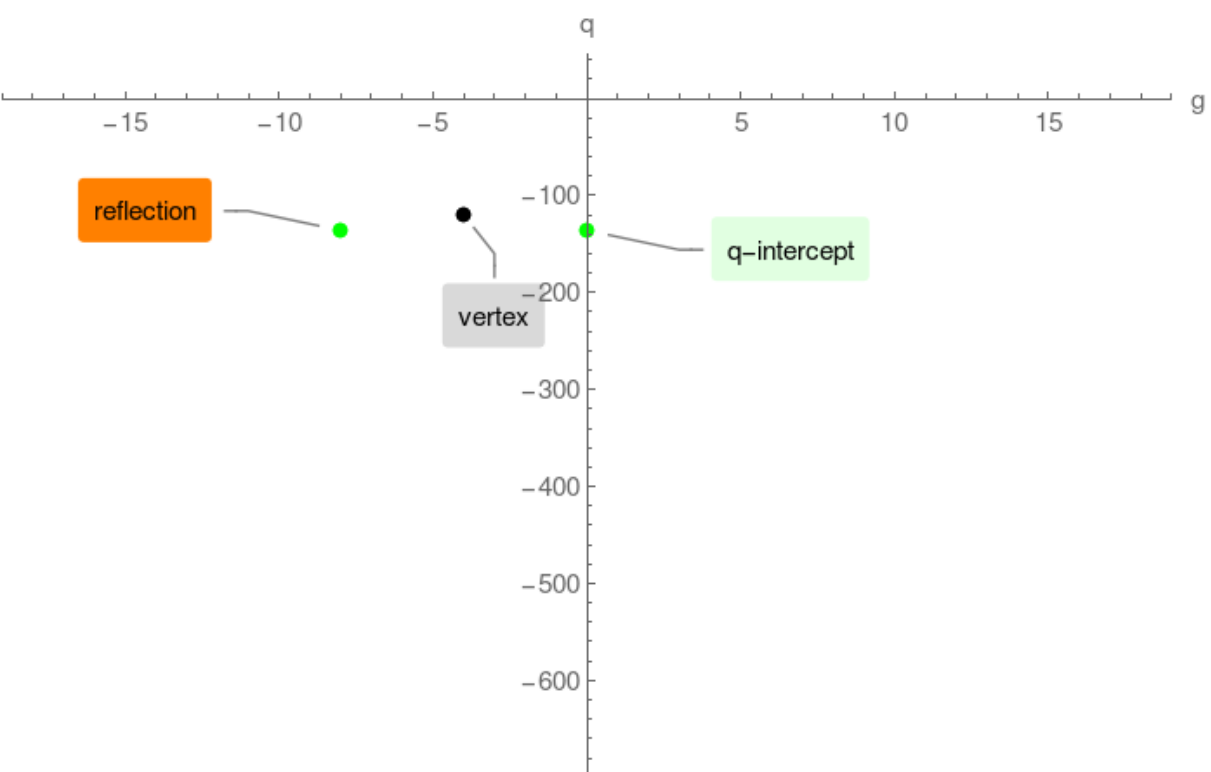
q-intercept = $(0, -136)$



Step 3.

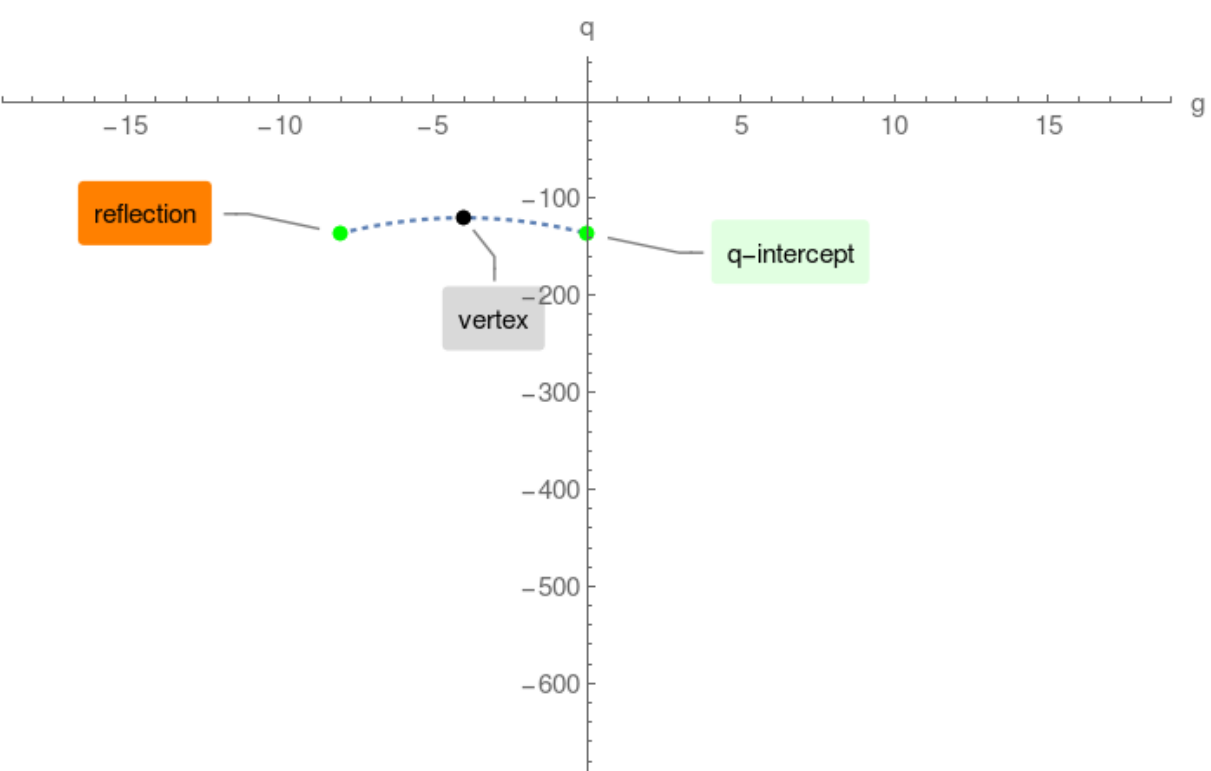
Compute q-intercept reflected against vertex,

reflection = $(-8, -136)$



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts

