

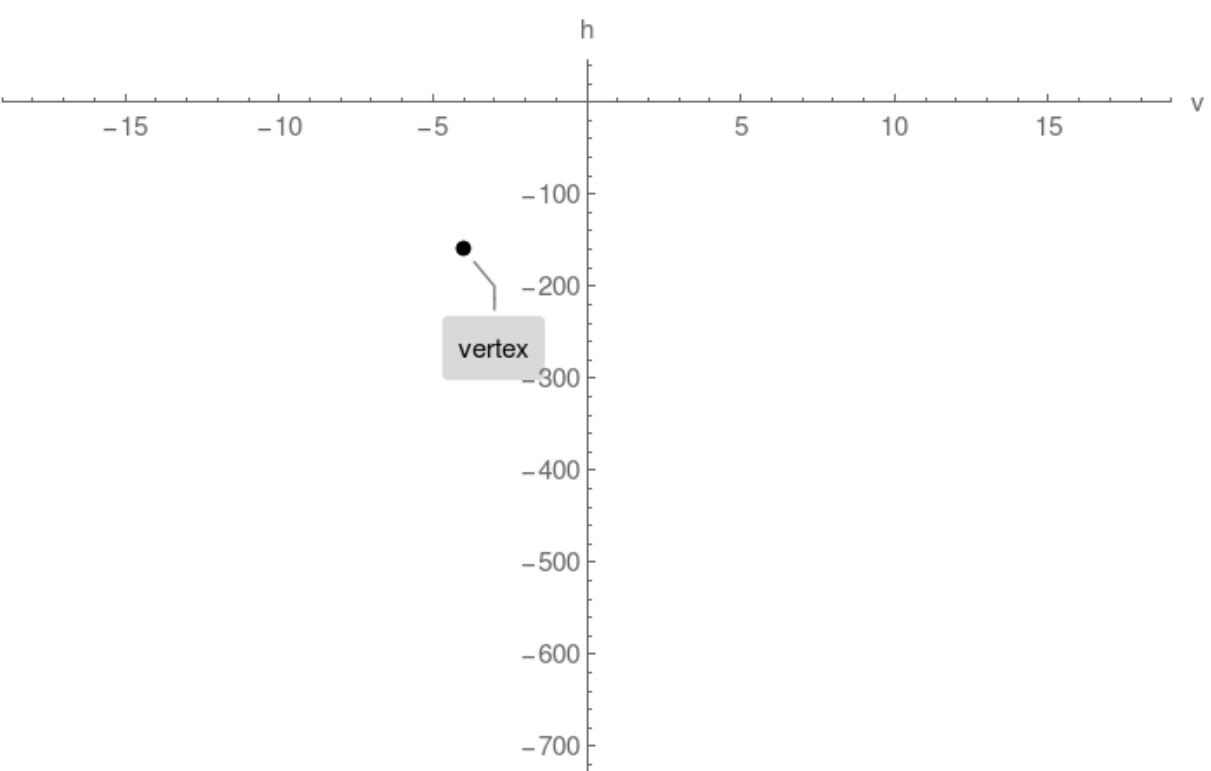
Example 2. No horizontal intercepts found

Plot $h(v) = -v^2 - 8v - 176$

Step 1.

Compute vertex and plot single point:

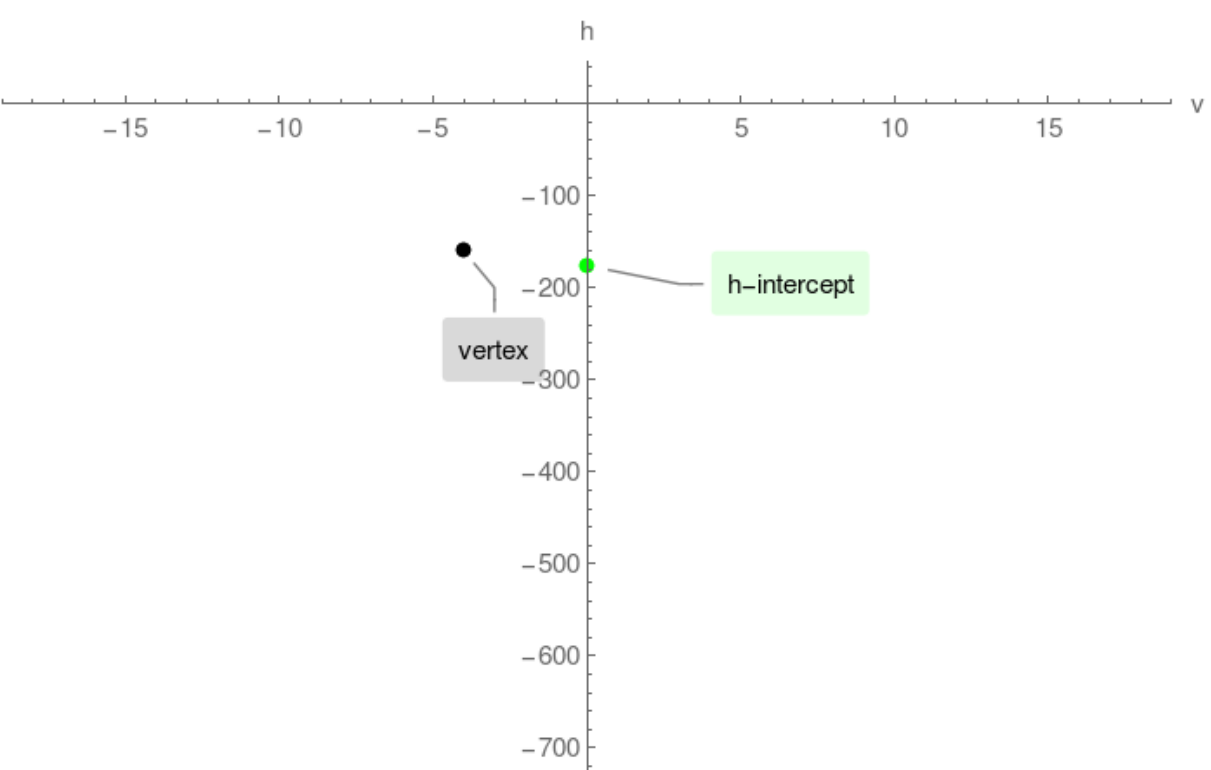
vertex = $(-4, -160)$



Step 2.

Compute h -intercept and plot single point:

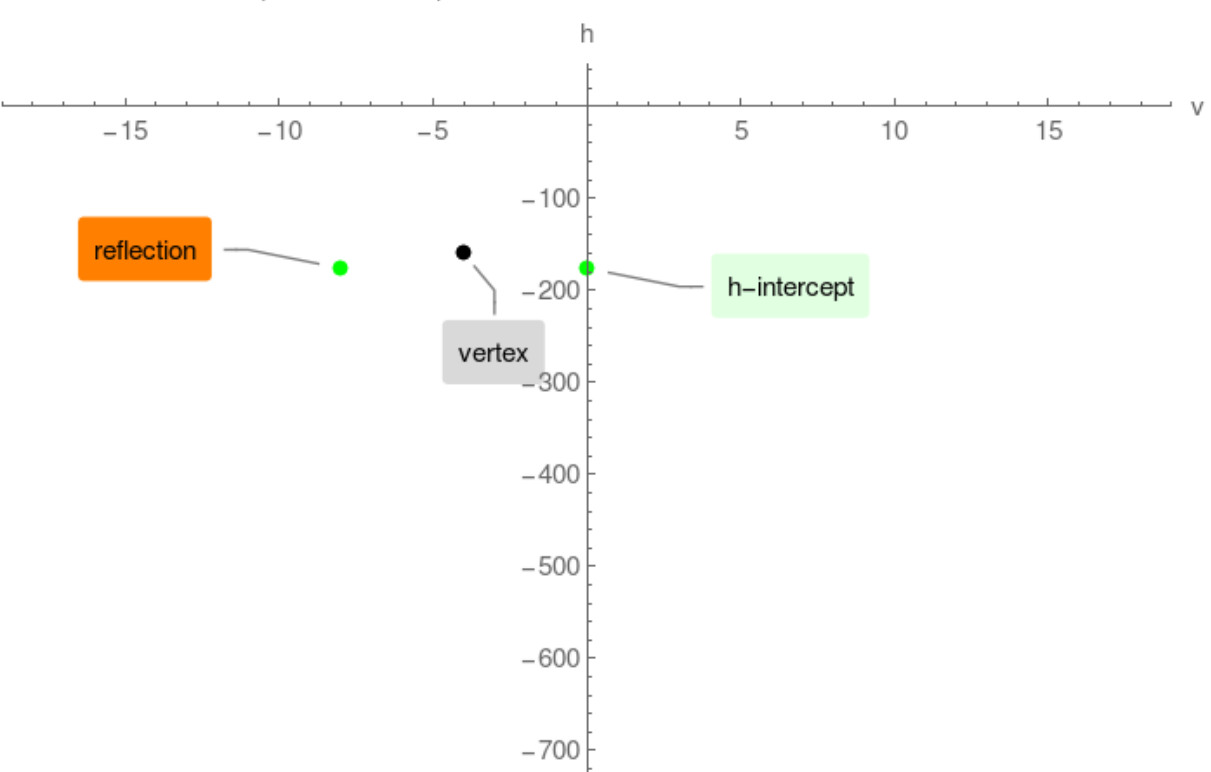
h -intercept = $(0, -176)$



Step 3.

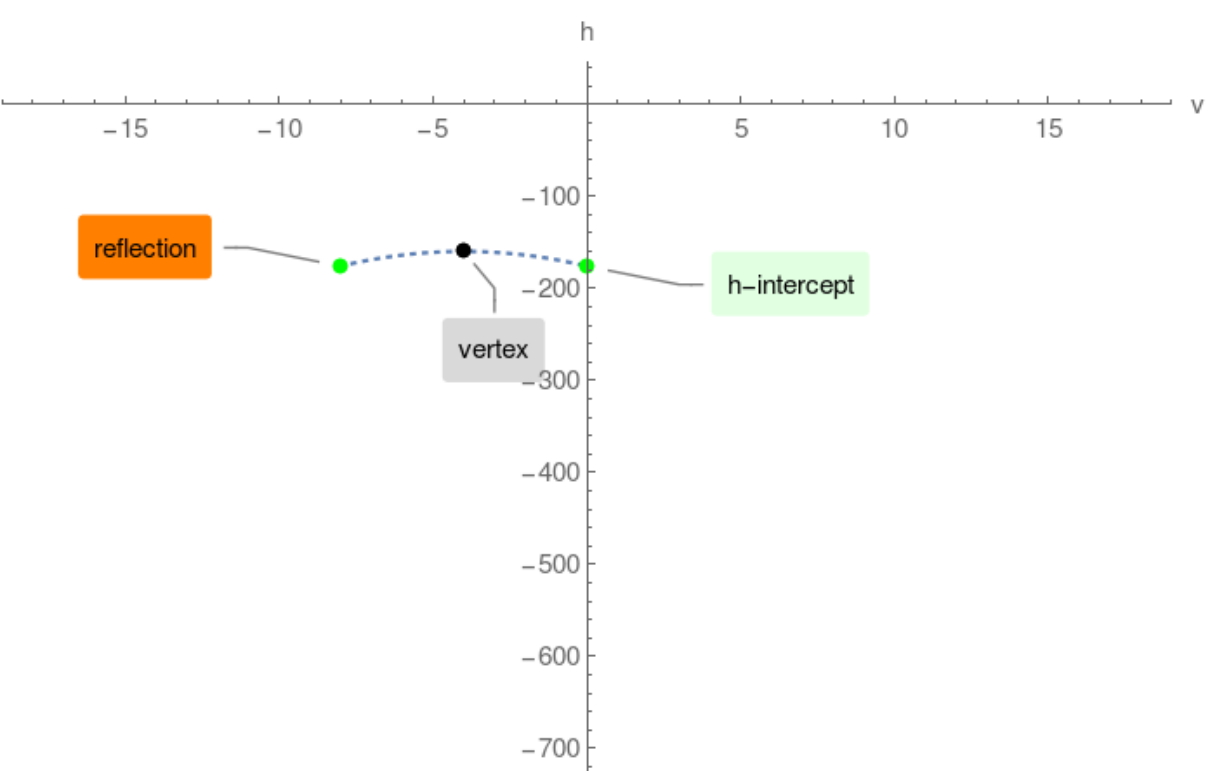
Compute h -intercept reflected against vertex,

reflection = $(-8, -176)$



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts

