

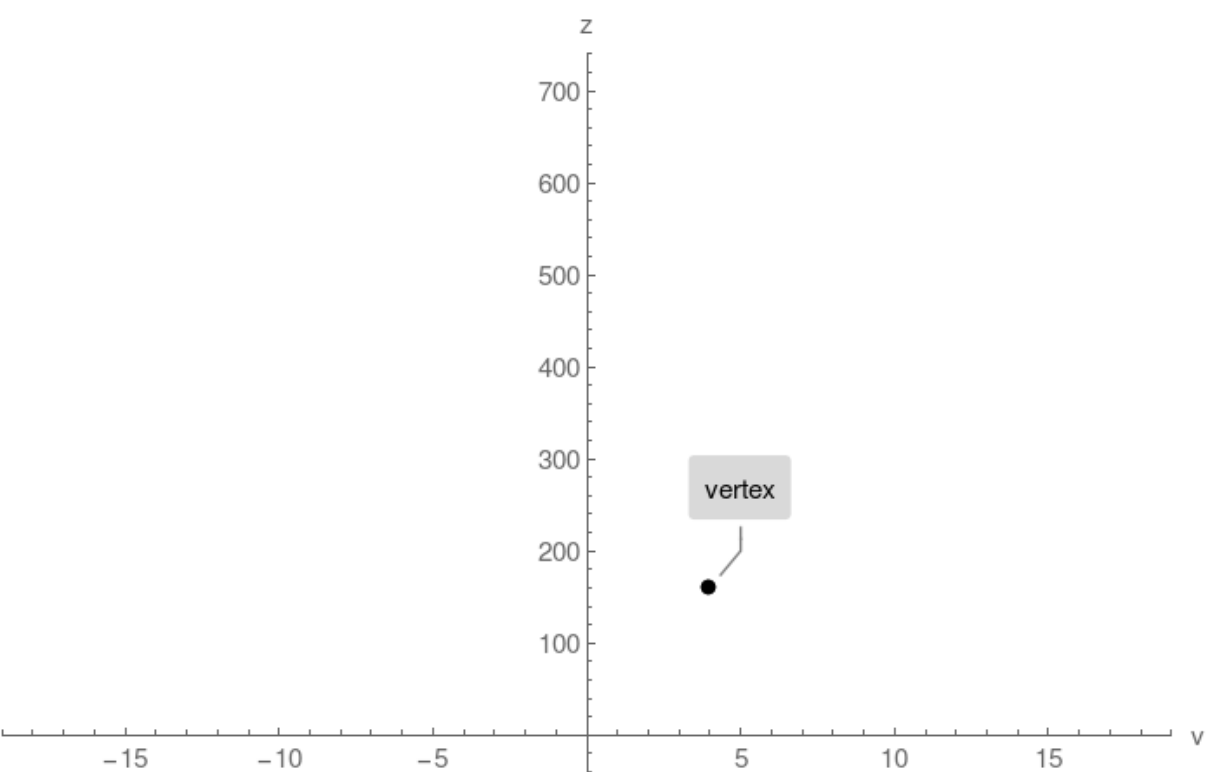
Example 2. No horizontal intercepts found

Plot $z(v) = v^2 - 8v + 176$

Step 1.

Compute vertex and plot single point:

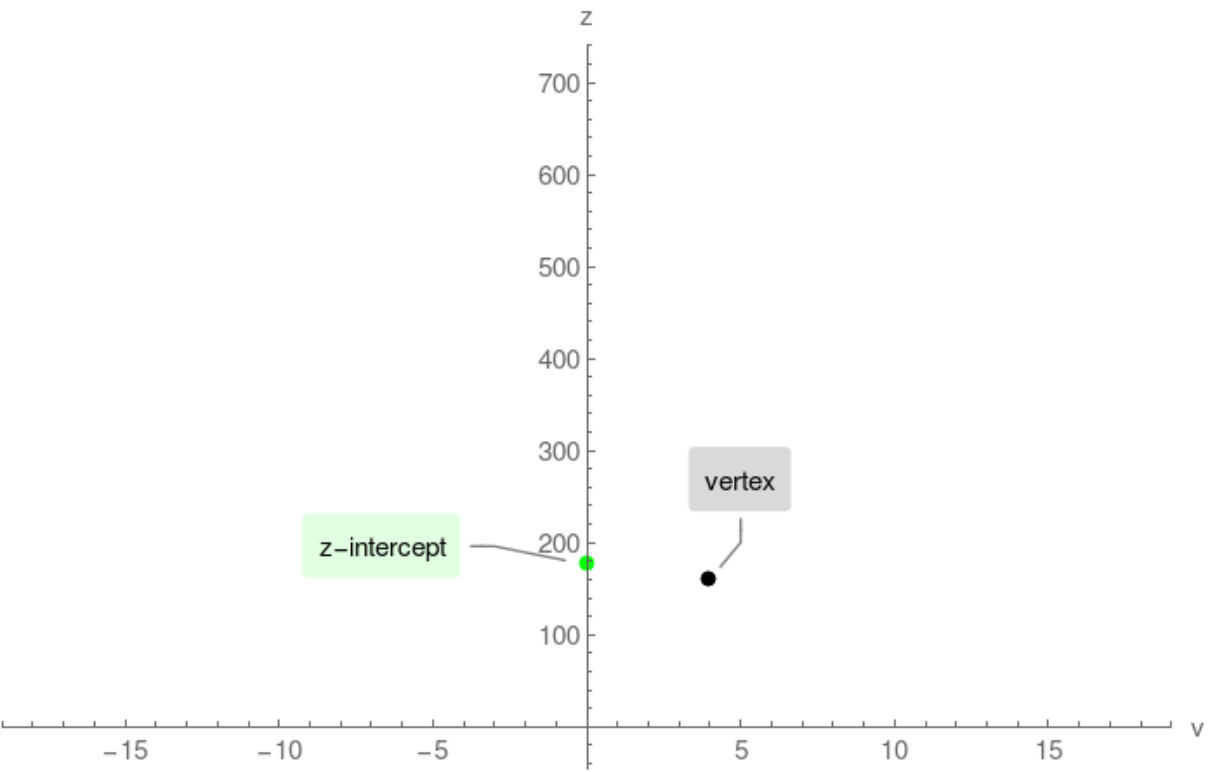
vertex = (4, 160)



Step 2.

Compute z-intercept and plot single point:

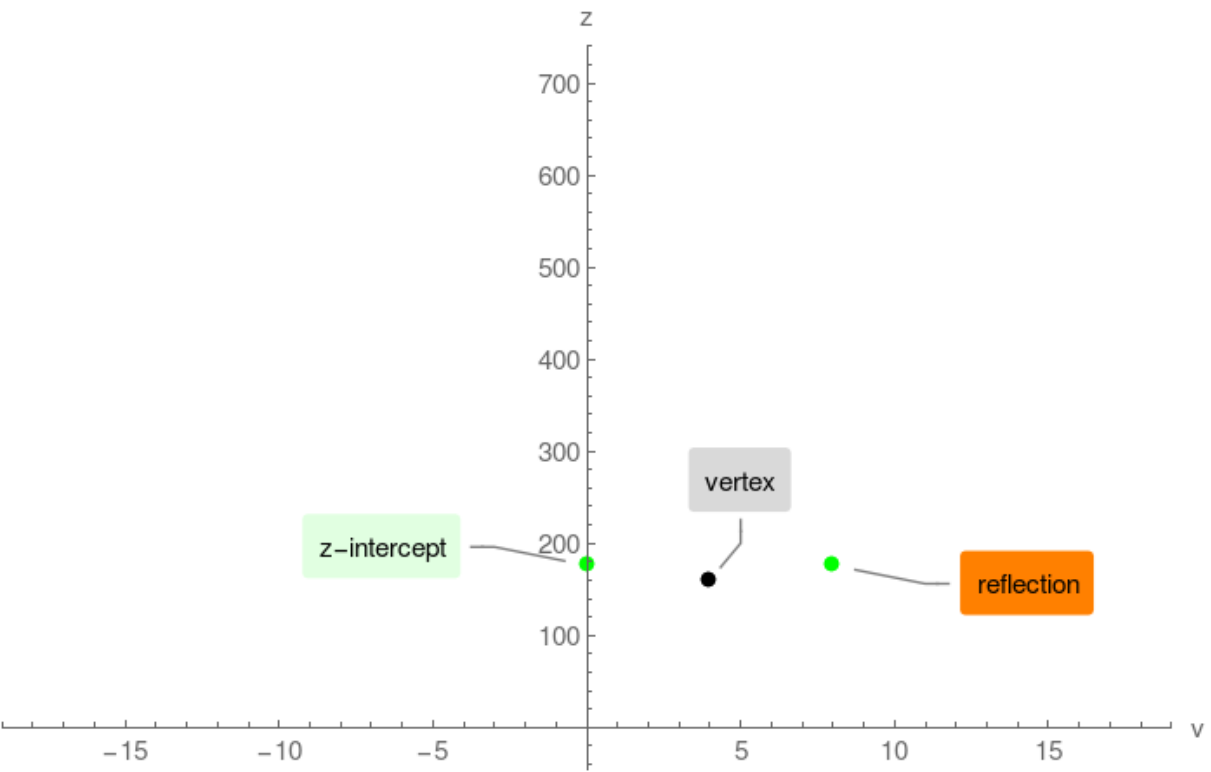
z-intercept = (0, 176)



Step 3.

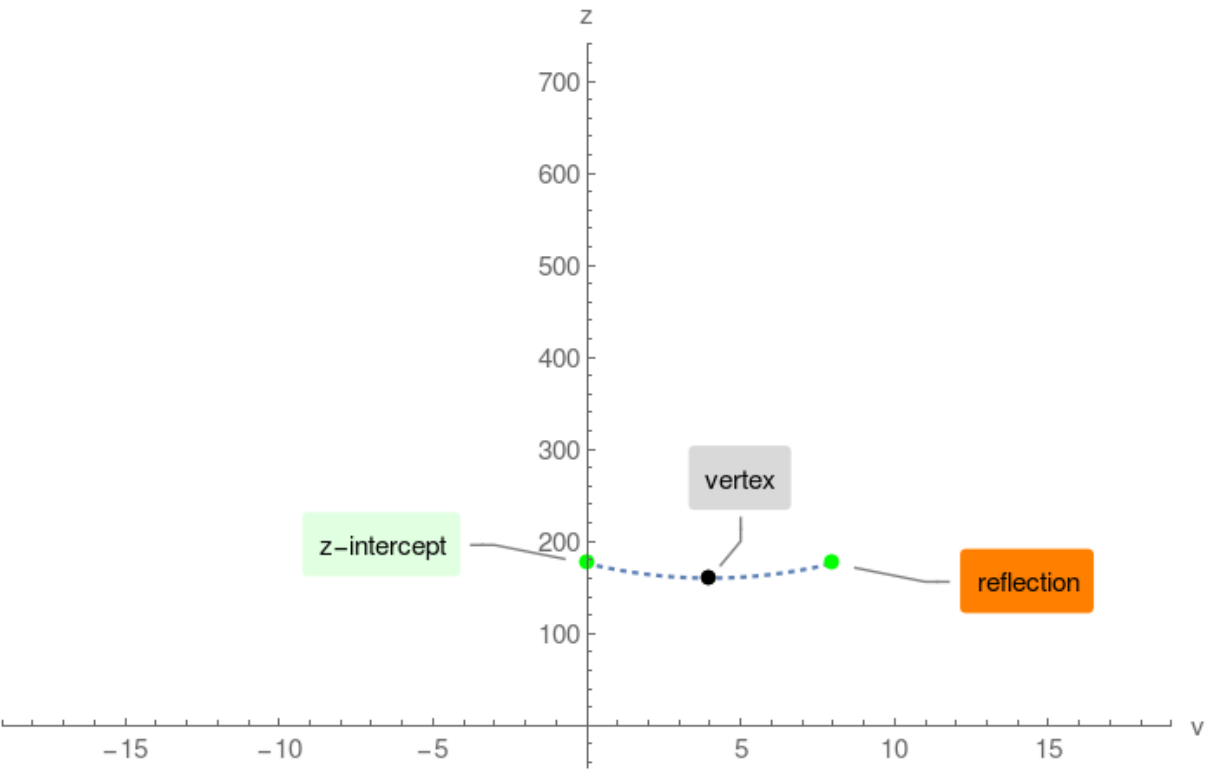
Compute z-intercept reflected against vertex,

reflection = (8, 176)



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts

