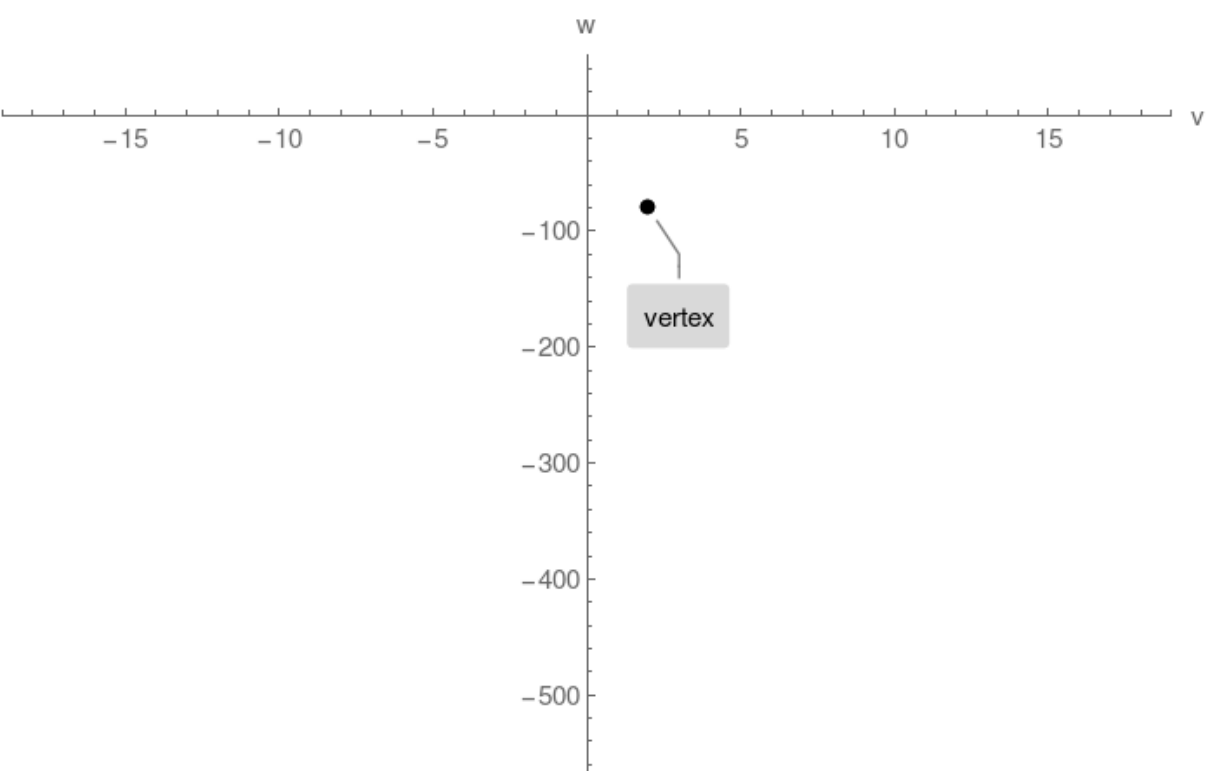# Example 2. No horizontal intercepts found

Plot $w(v) = -v^2 + 4v - 84$

Step 1.
Compute vertex and plot single point:
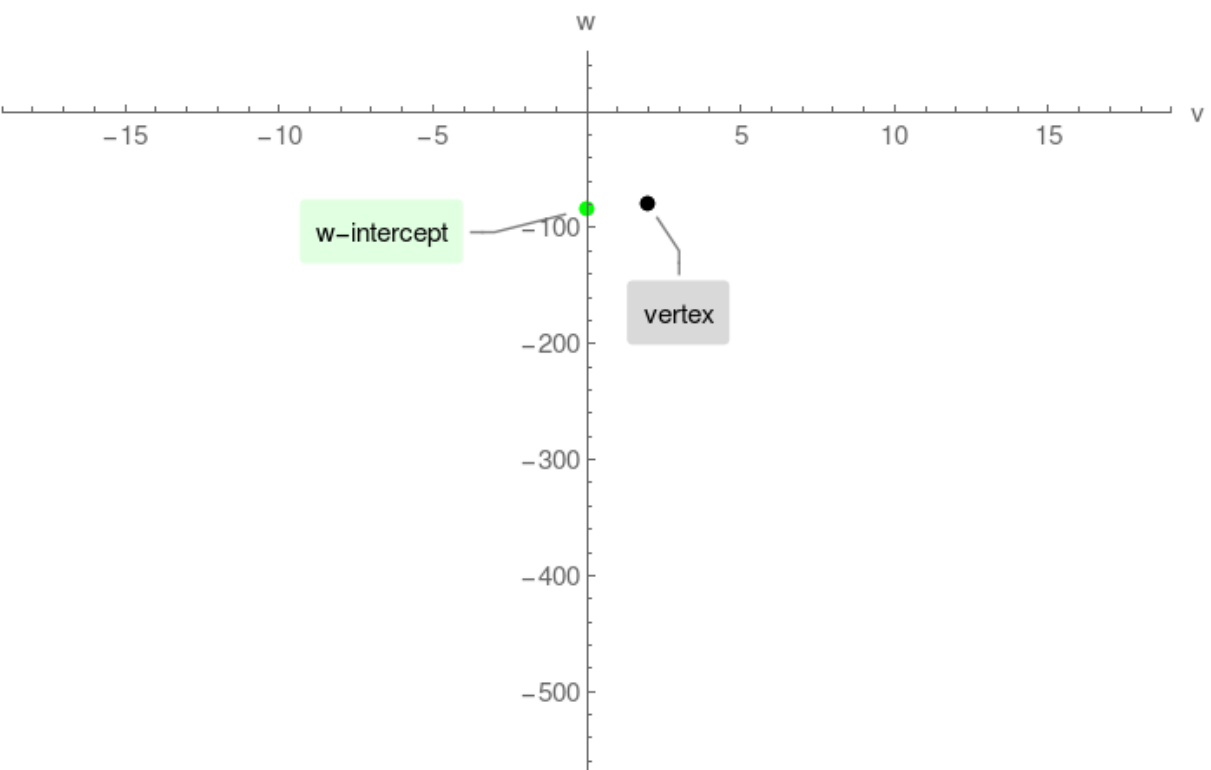vertex = $(2, -80)$

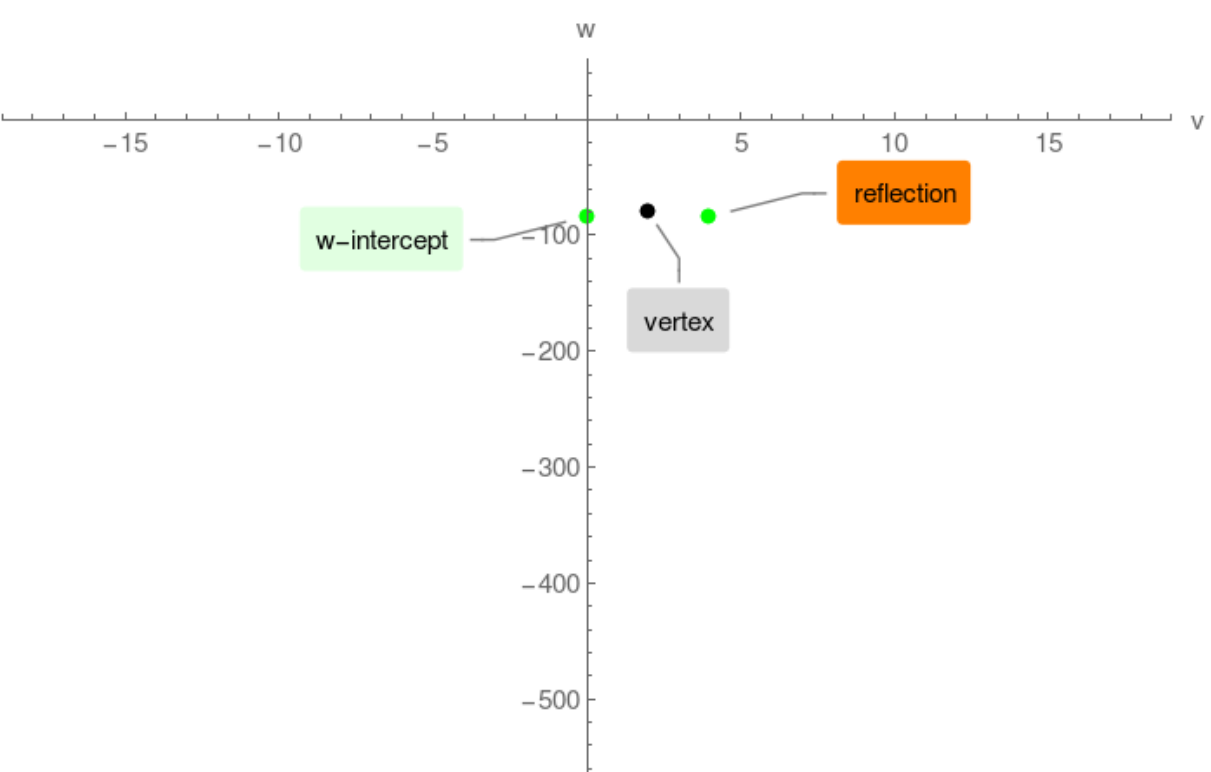## Step 2.
Compute w-intercept and plot single point:
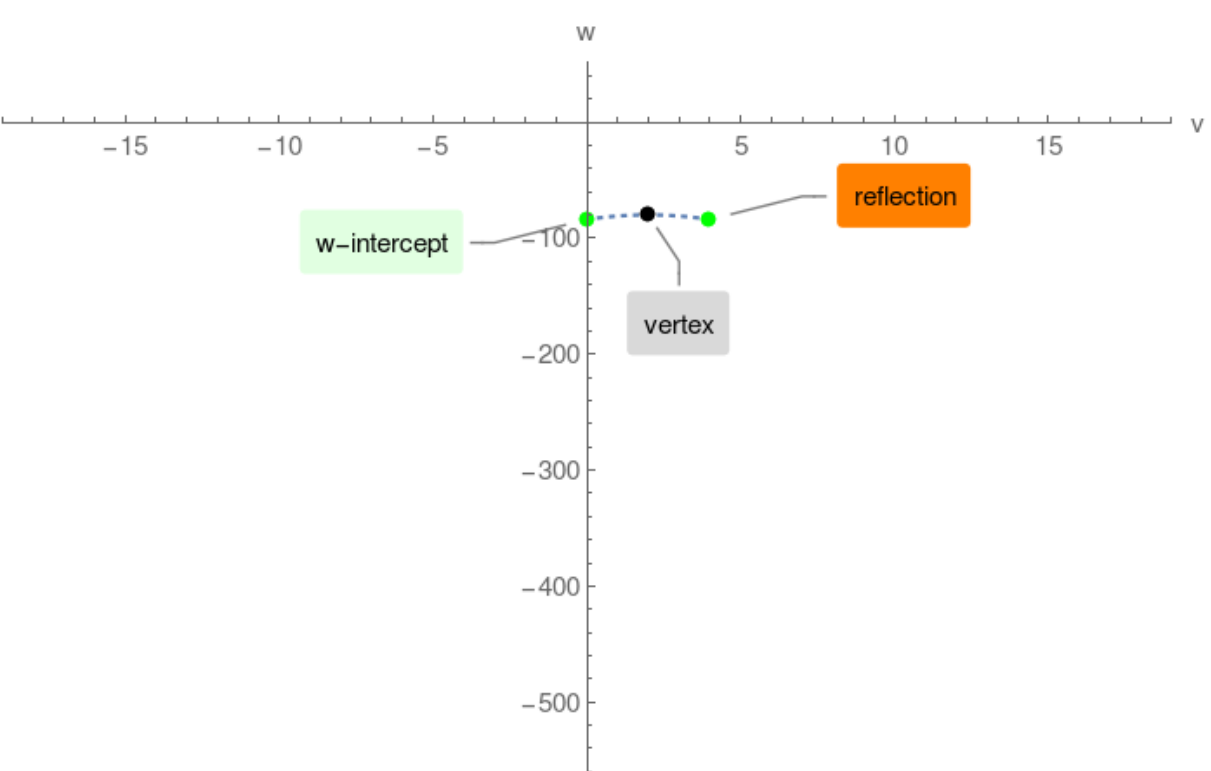w-intercept = $(0, -84)$

Step 3.
Compute w-intercept reflected against vertex,
reflection = $(4, -84)$

Step 4.
connect the above computed points:

Step 5.
Extend the parabola beyond the range of intercepts