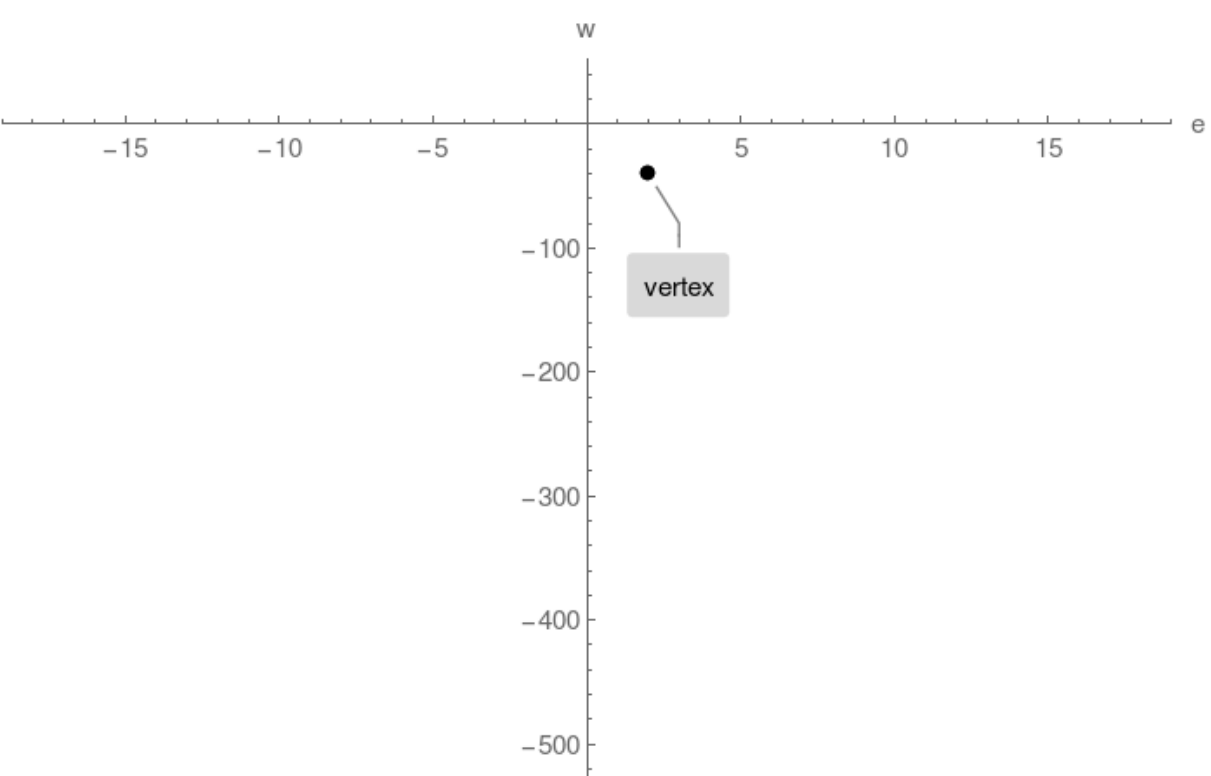# Example 2. No horizontal intercepts found

Plot $w(e) = -e^2 + 4e - 44$

Step 1.
Compute vertex and plot single point:
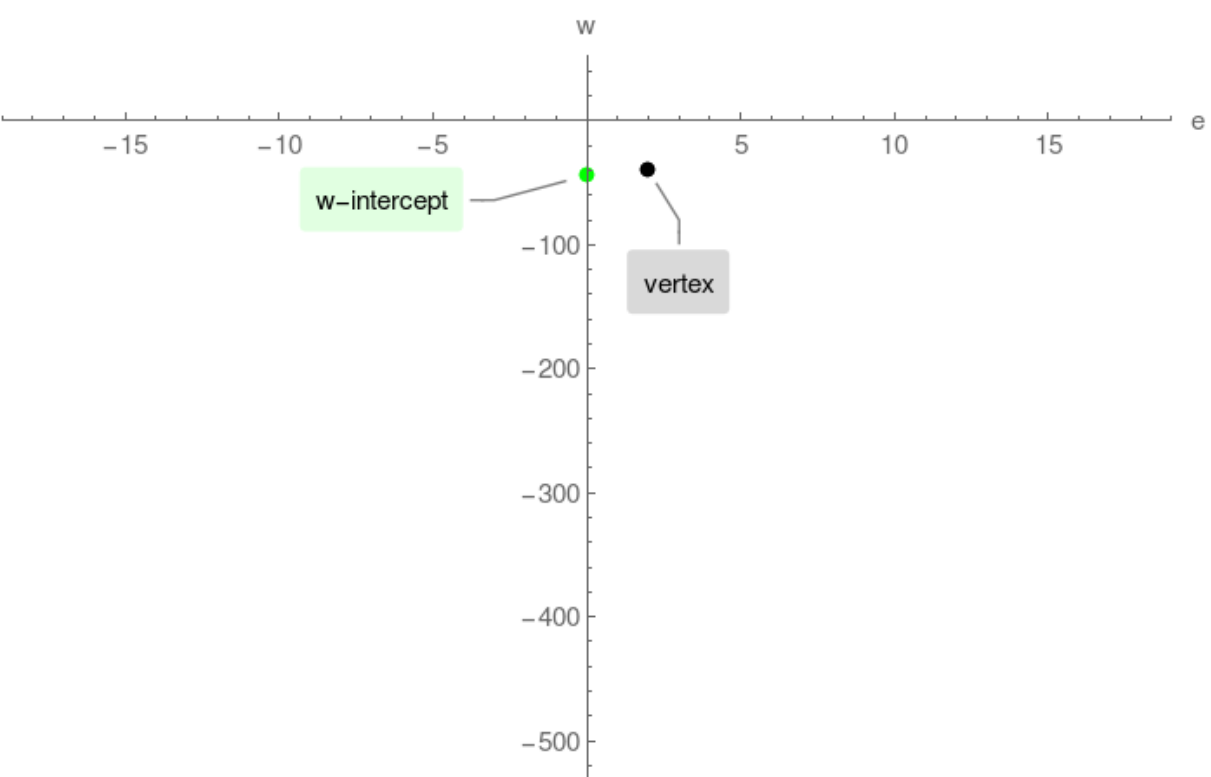vertex $= (2, -40)$

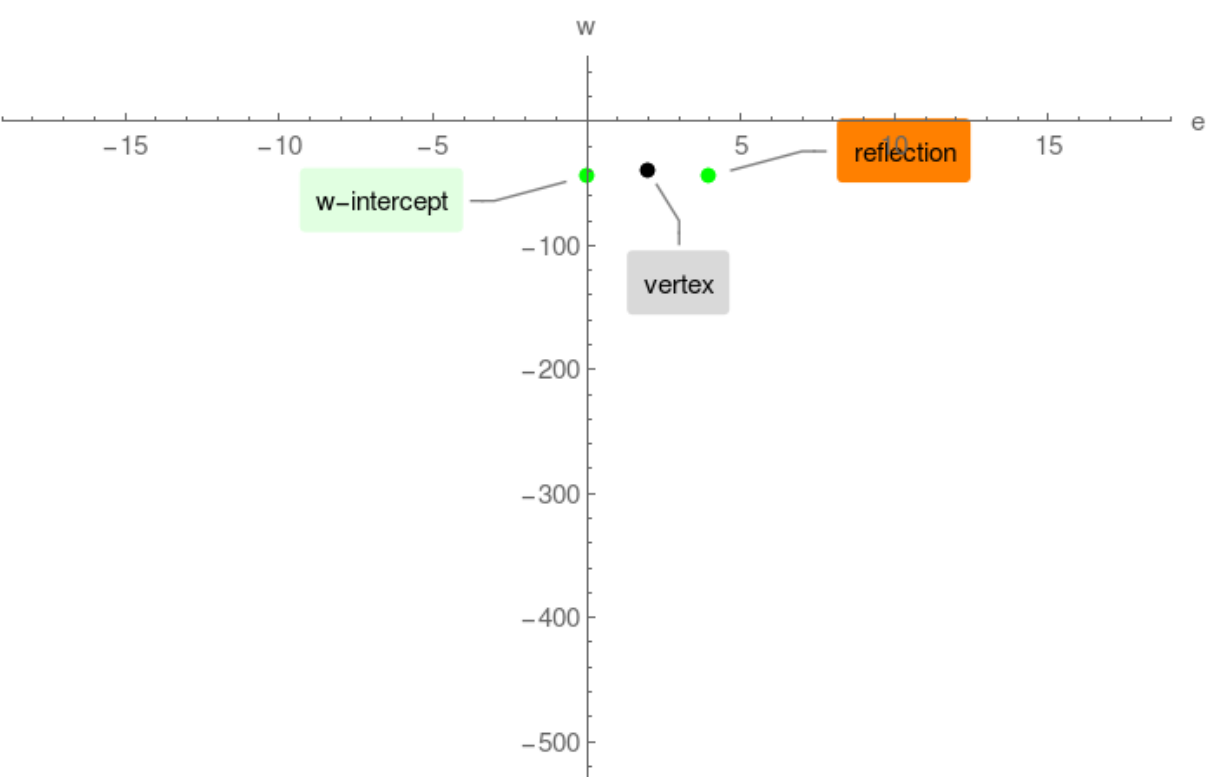## Step 2.
Compute w-intercept and plot single point:
w-intercept $= (0, -44)$

Step 3.
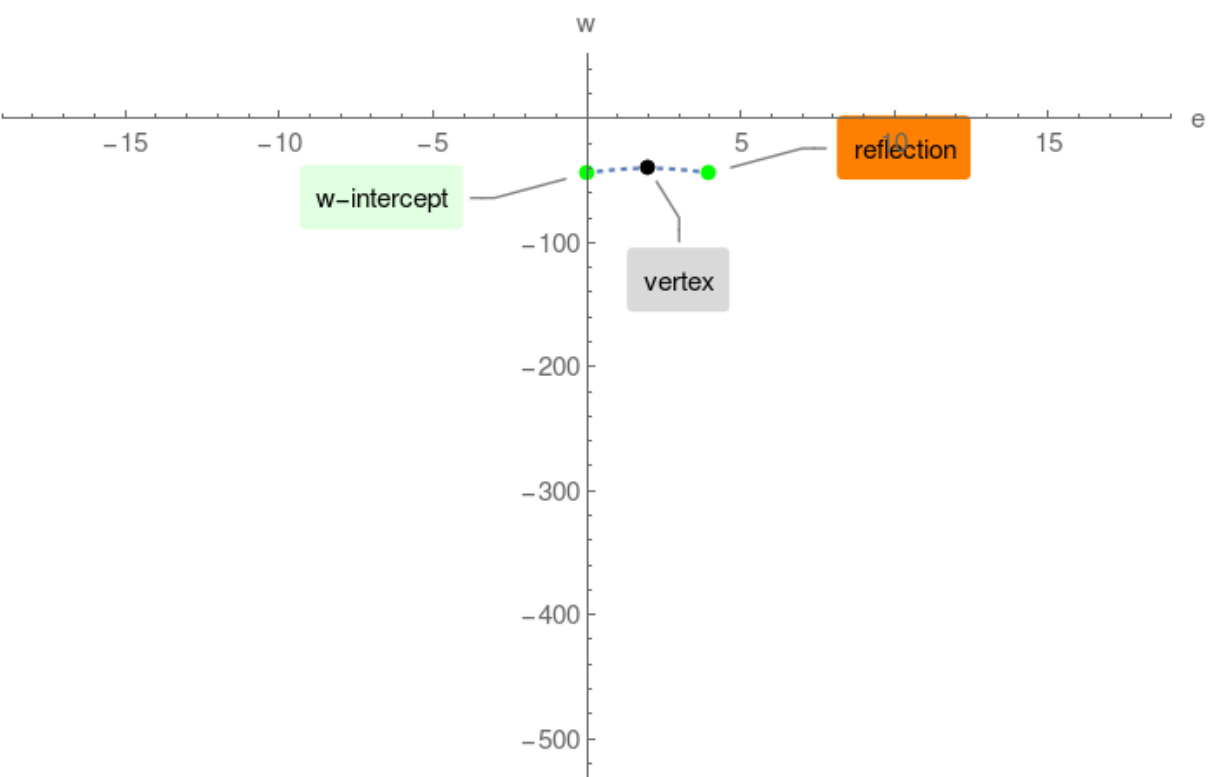Compute w-intercept reflected against vertex,
reflection $= (4, -44)$

Step 4.
connect the above computed points:

Step 5.
Extend the parabola beyond the range of intercepts