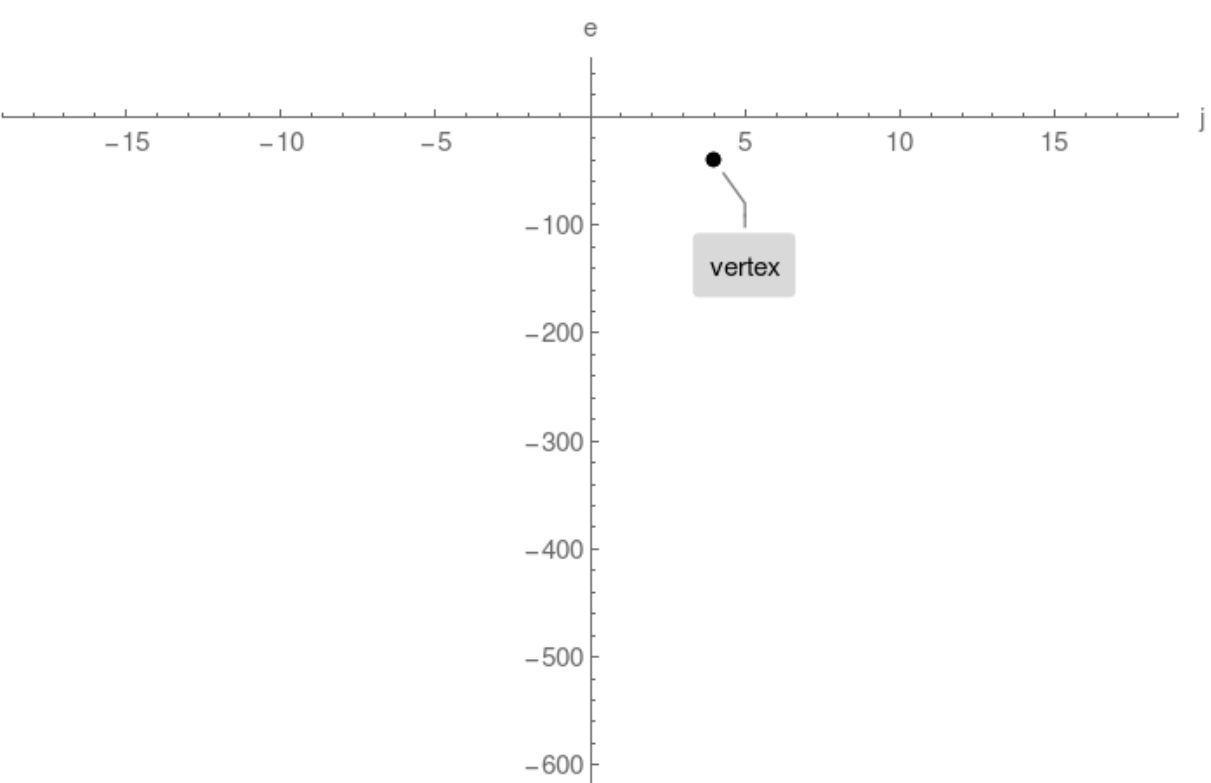# Example 2. No horizontal intercepts found

Plot $e(j) = -j^2 + 8j - 56$

Step 1.

Compute vertex and plot single point:
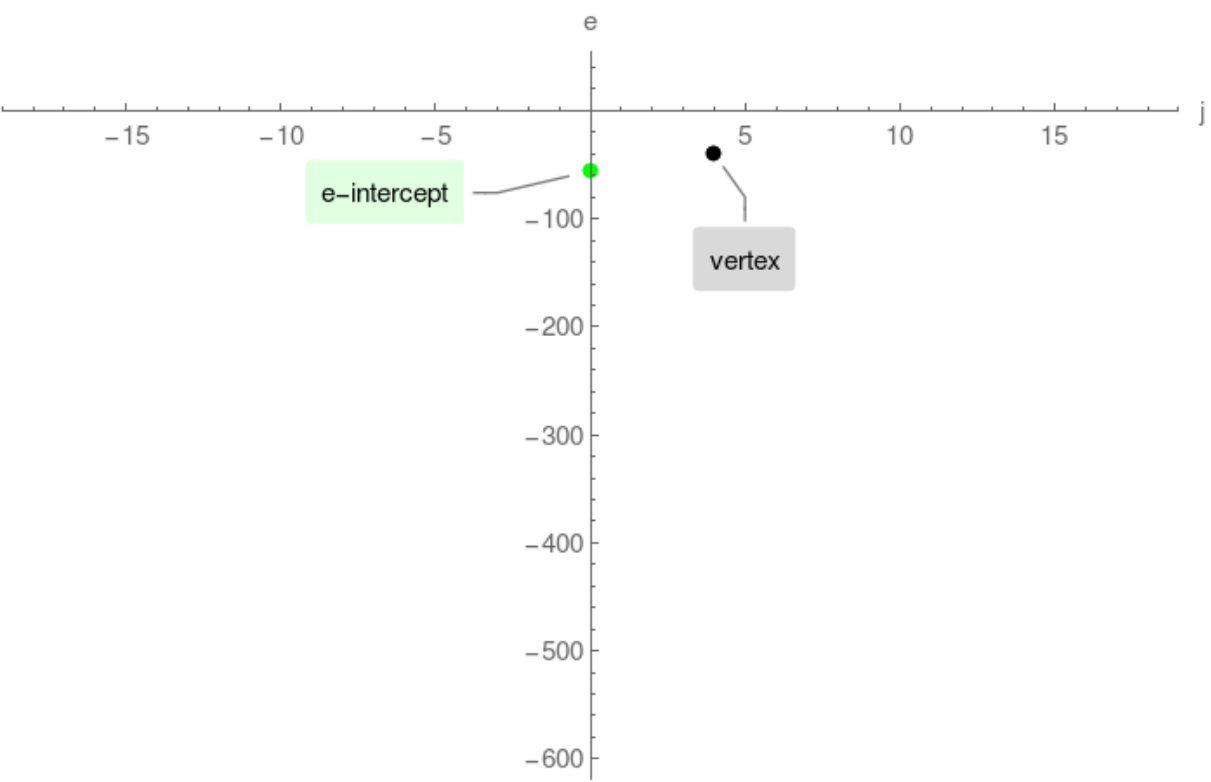vertex = $(4, -40)$

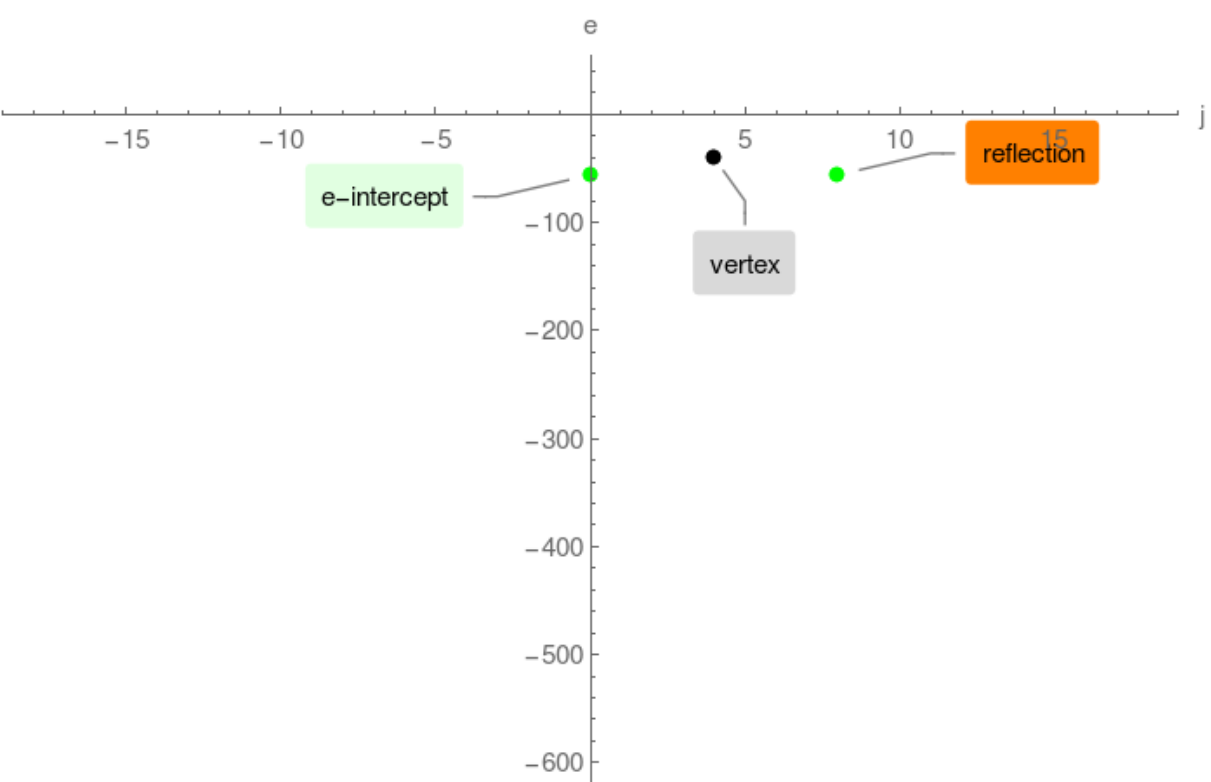## Step 2.

Compute e-intercept and plot single point:
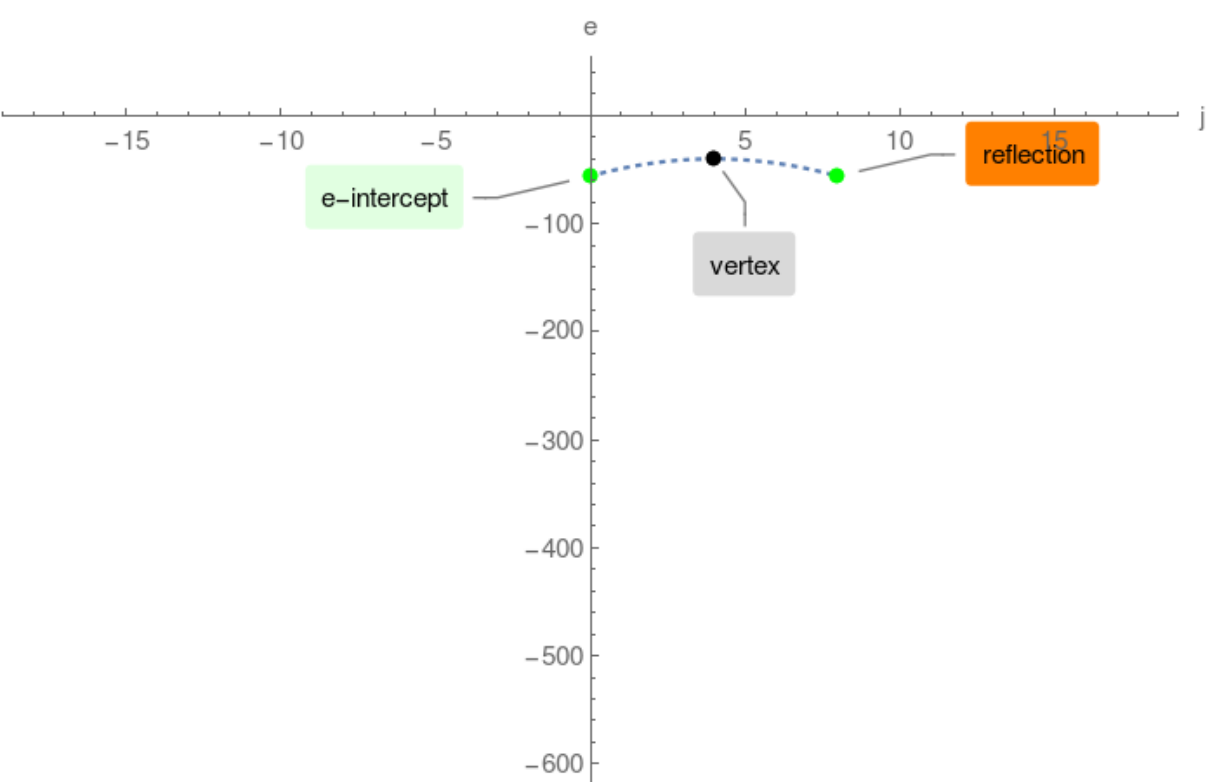e-intercept = $(0, -56)$

Step 3.

Compute e-intercept reflected against vertex,
reflection = $(8, -56)$

Step 4.

connect the above computed points:

Step 5.

Extend the parabola beyond the range of intercepts