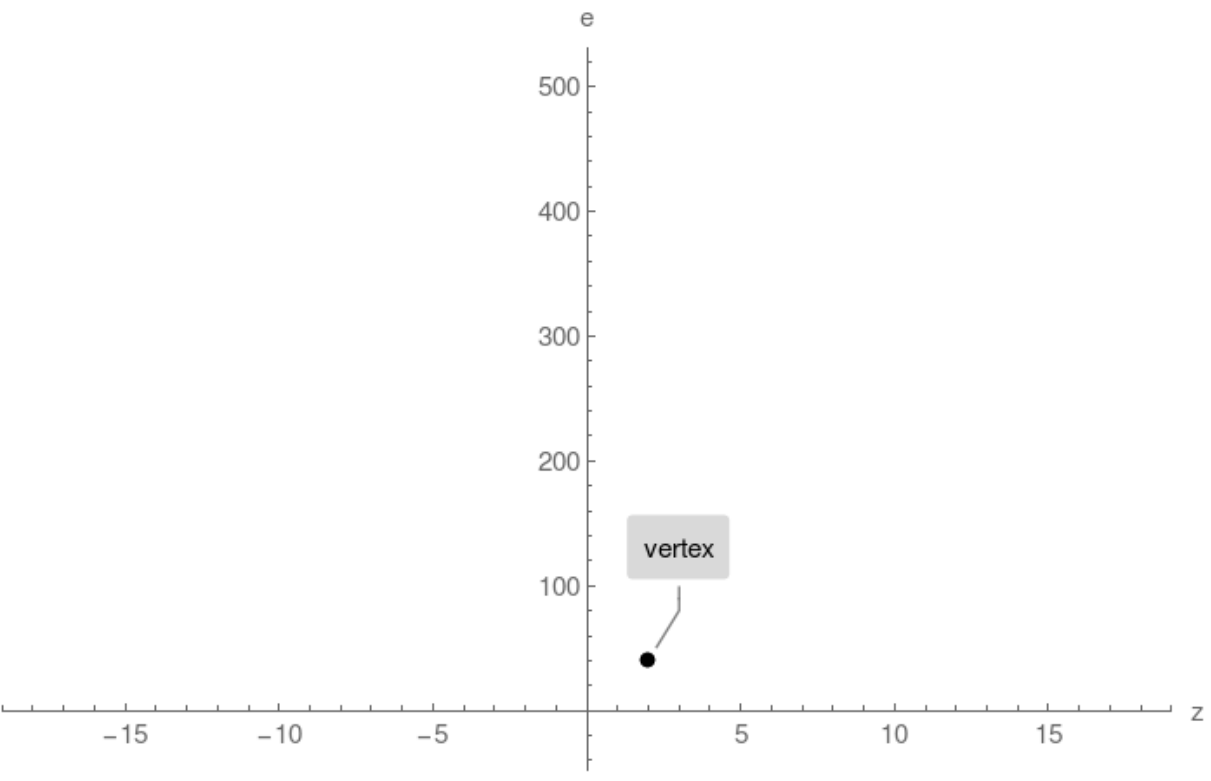
Example 2. No horizontal intercepts found

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

Step 1.

Compute vertex and plot single point:

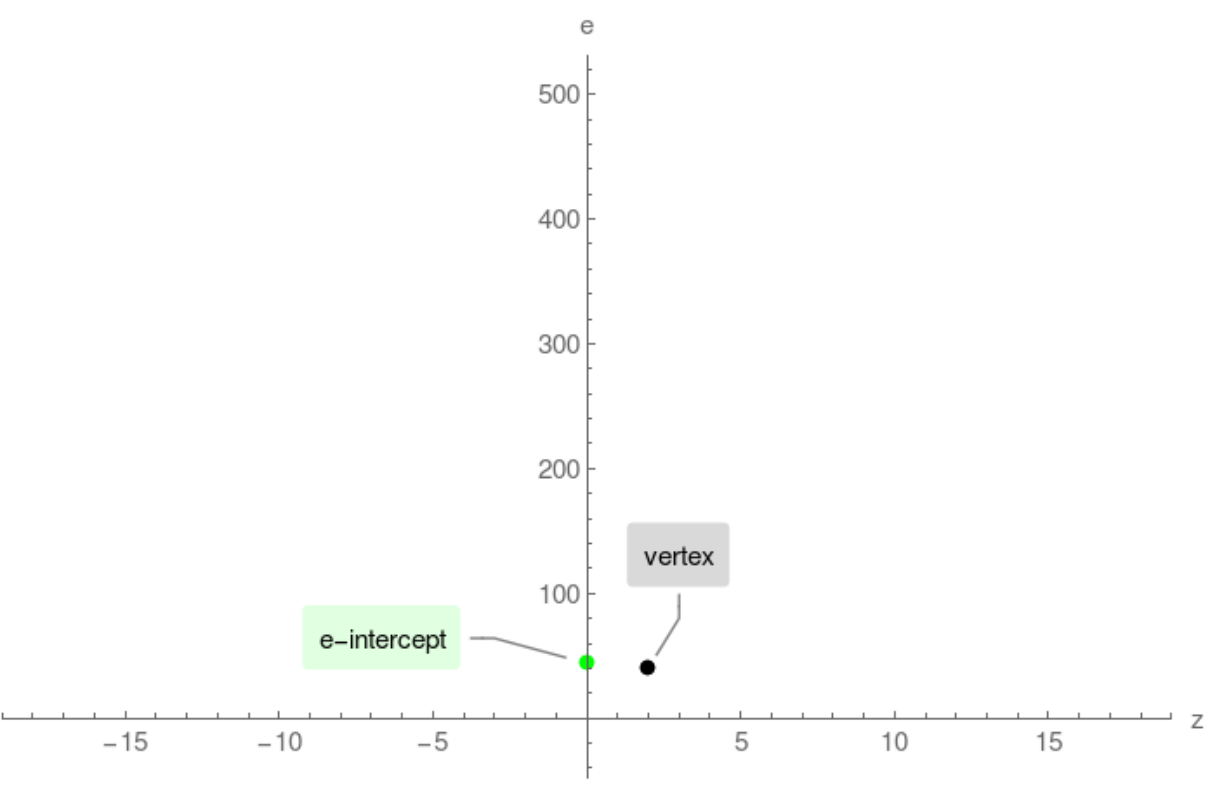
vertex = (2,40)



Step 2.

Compute e-intercept and plot single point:

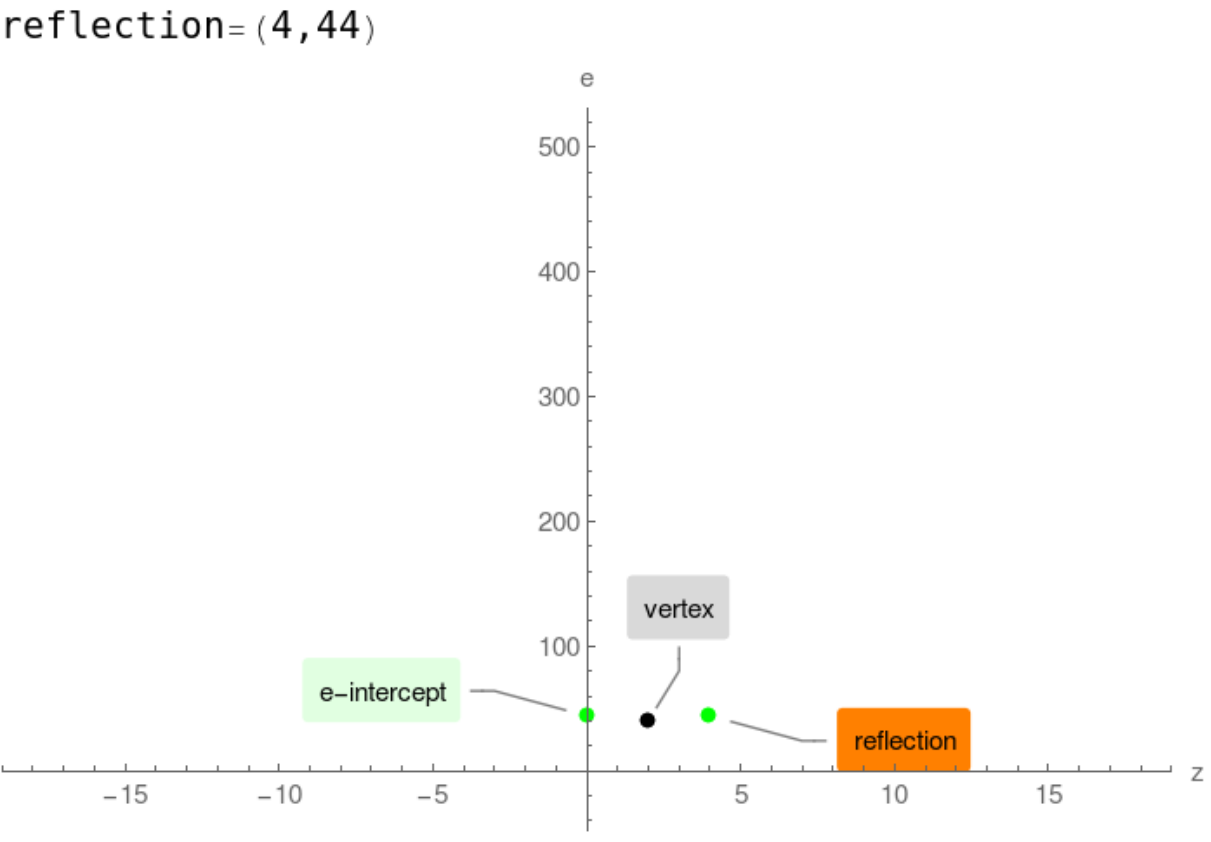
e-intercept = (0,44)



Step 3.

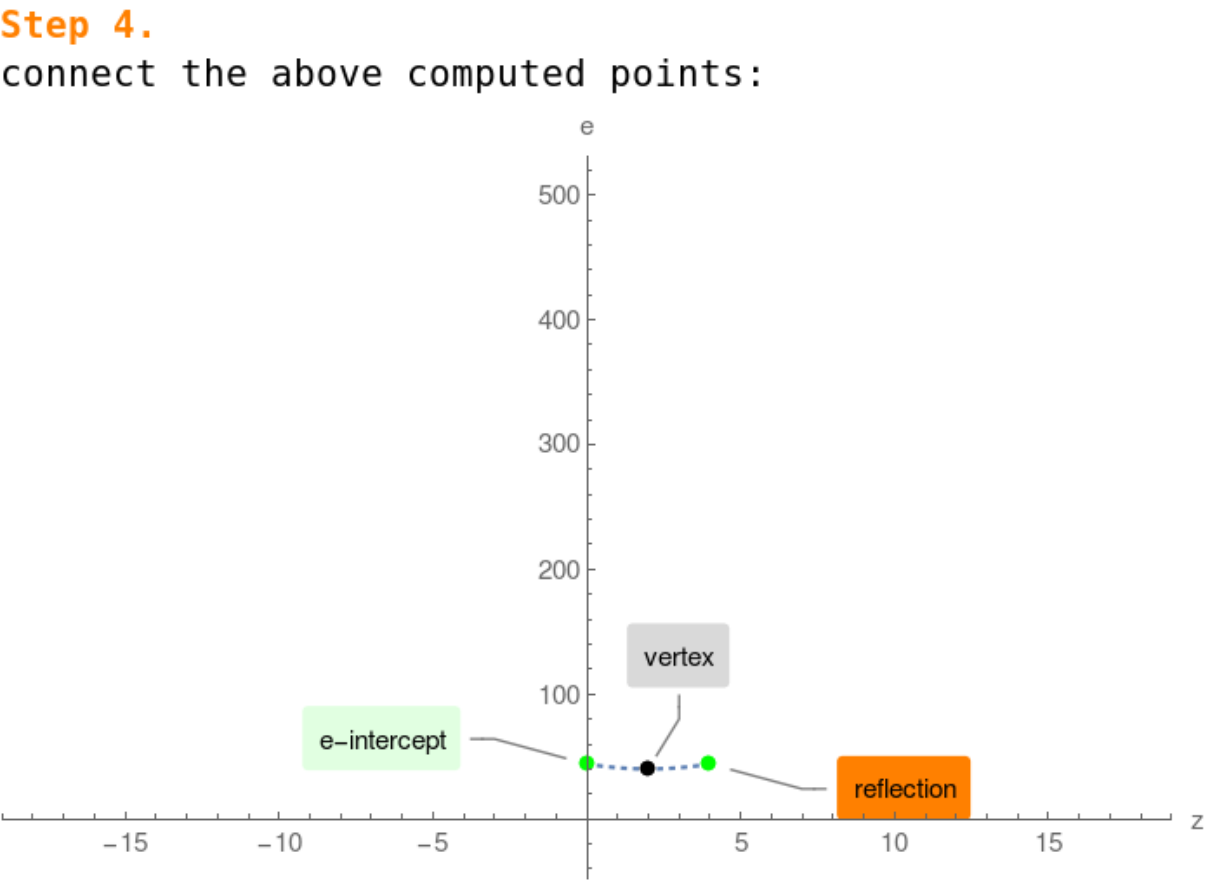
Compute e-intercept reflected against vertex,

reflection = (4,44)



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts