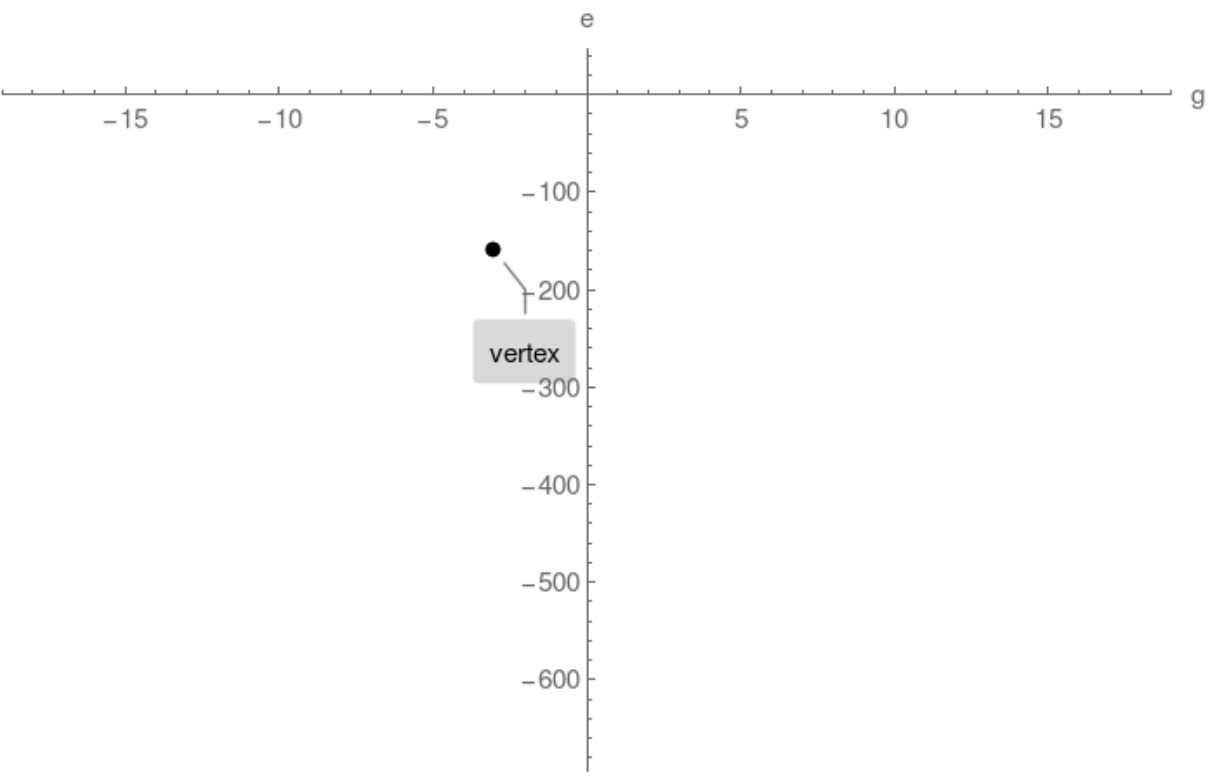
Example 2. No horizontal intercepts found

Plot $e(g) = -g^2 - 6g - 169$

Step 1.

Compute vertex and plot single point:

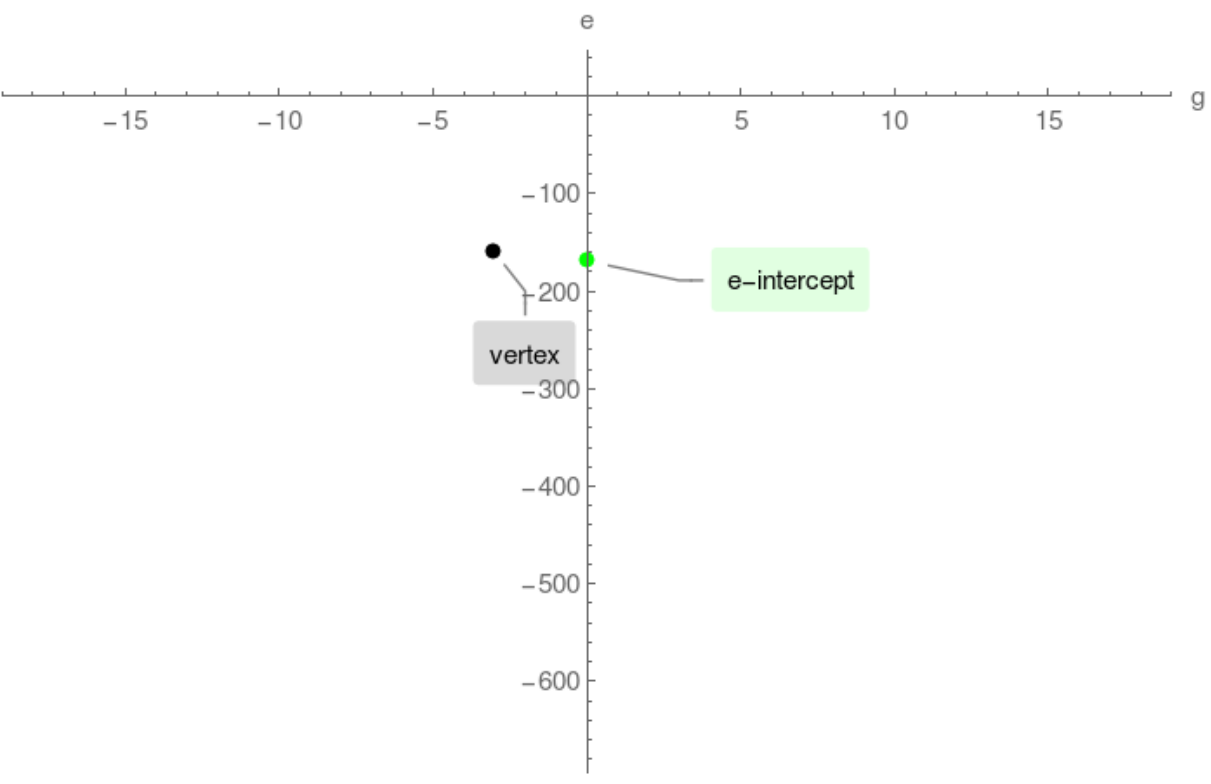
vertex $= (-3, -160)$



Step 2.

Compute e-intercept and plot single point:

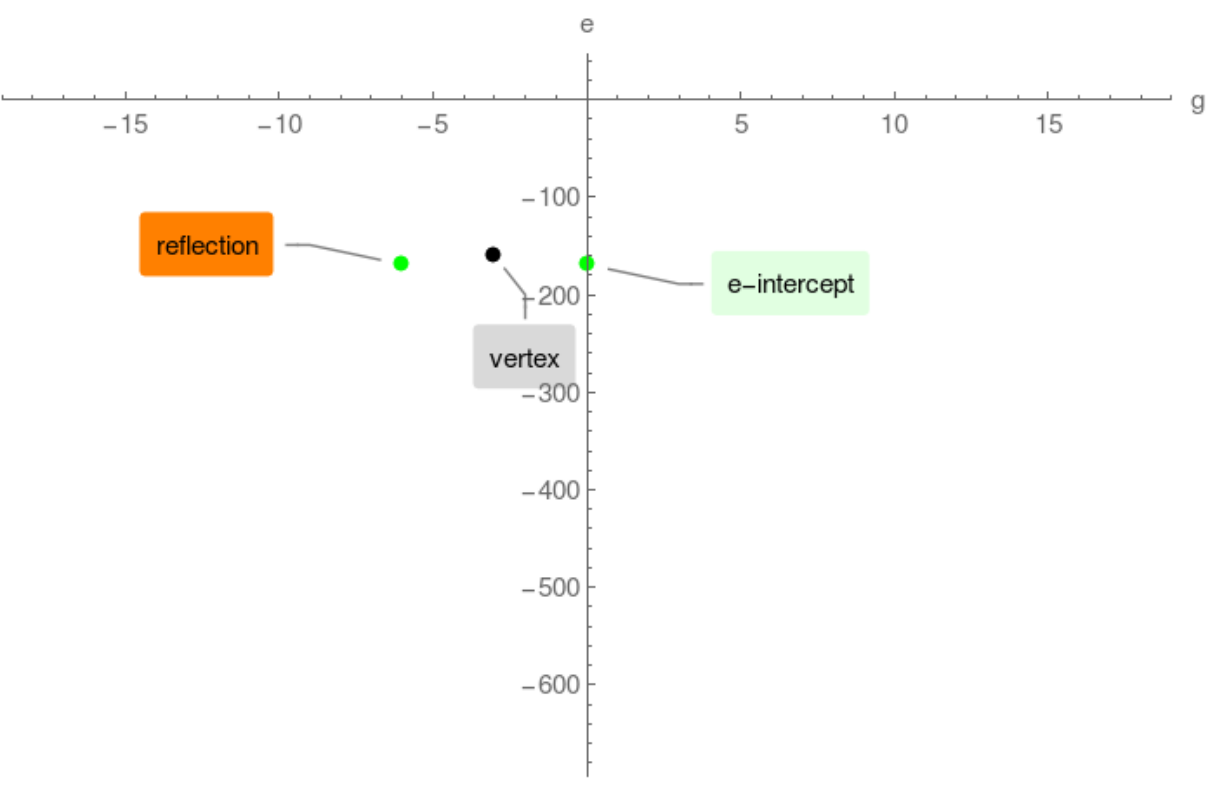
e-intercept $= (0, -169)$



Step 3.

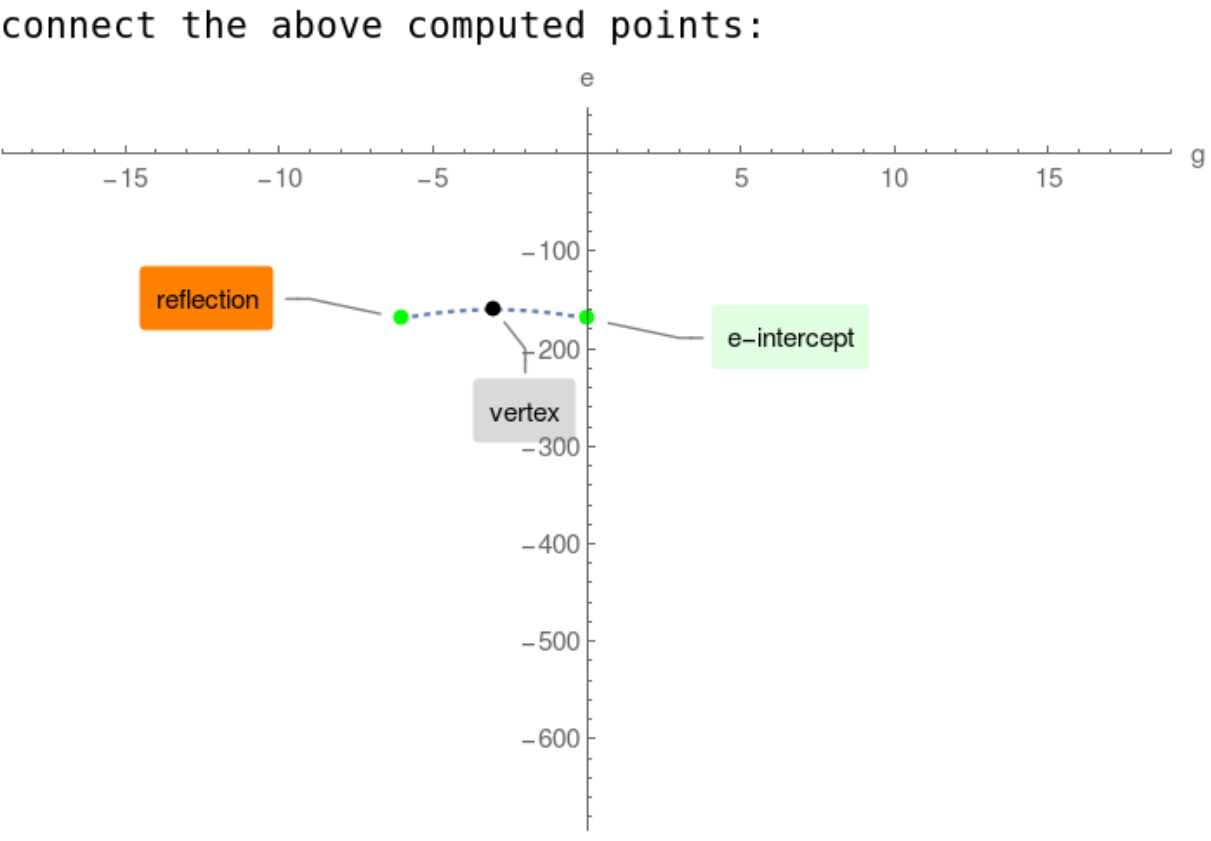
Compute e-intercept reflected against vertex,

reflection $= (-6, -169)$



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts