

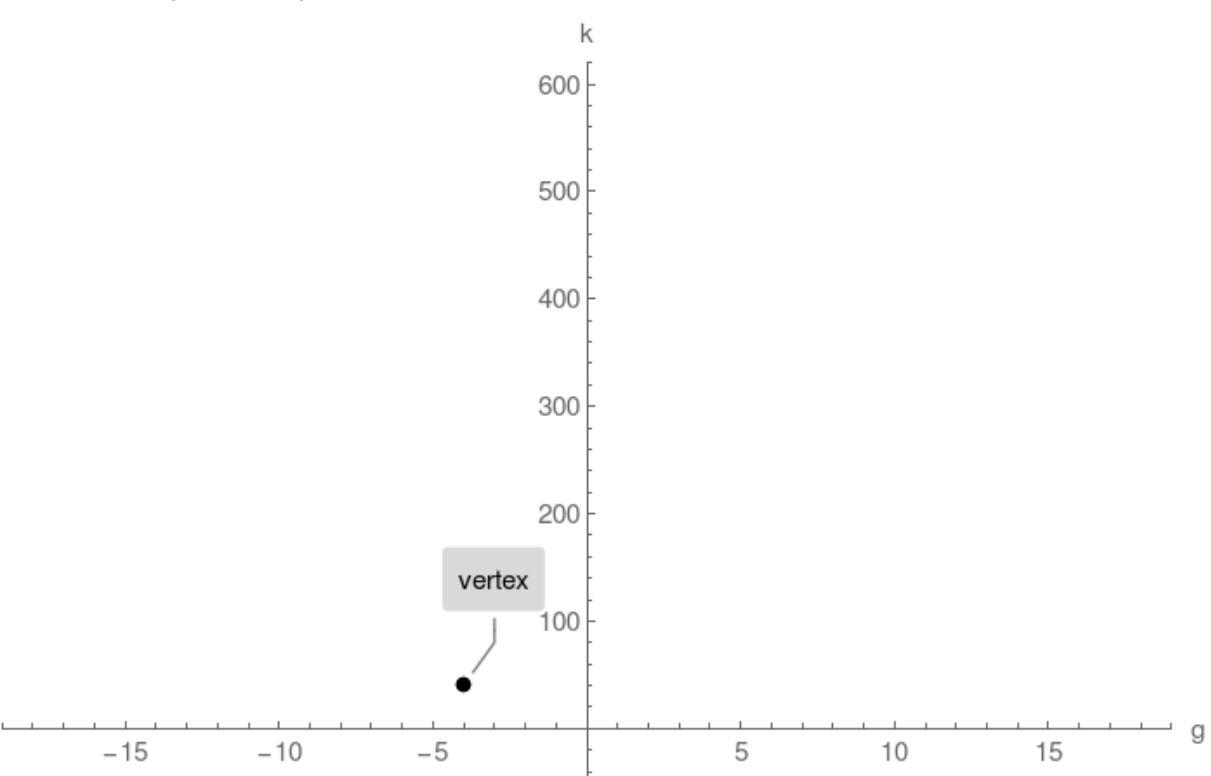
Example 2. No horizontal intercepts found

Plot $k(g) = g^2 + 8g + 56$

Step 1.

Compute vertex and plot single point:

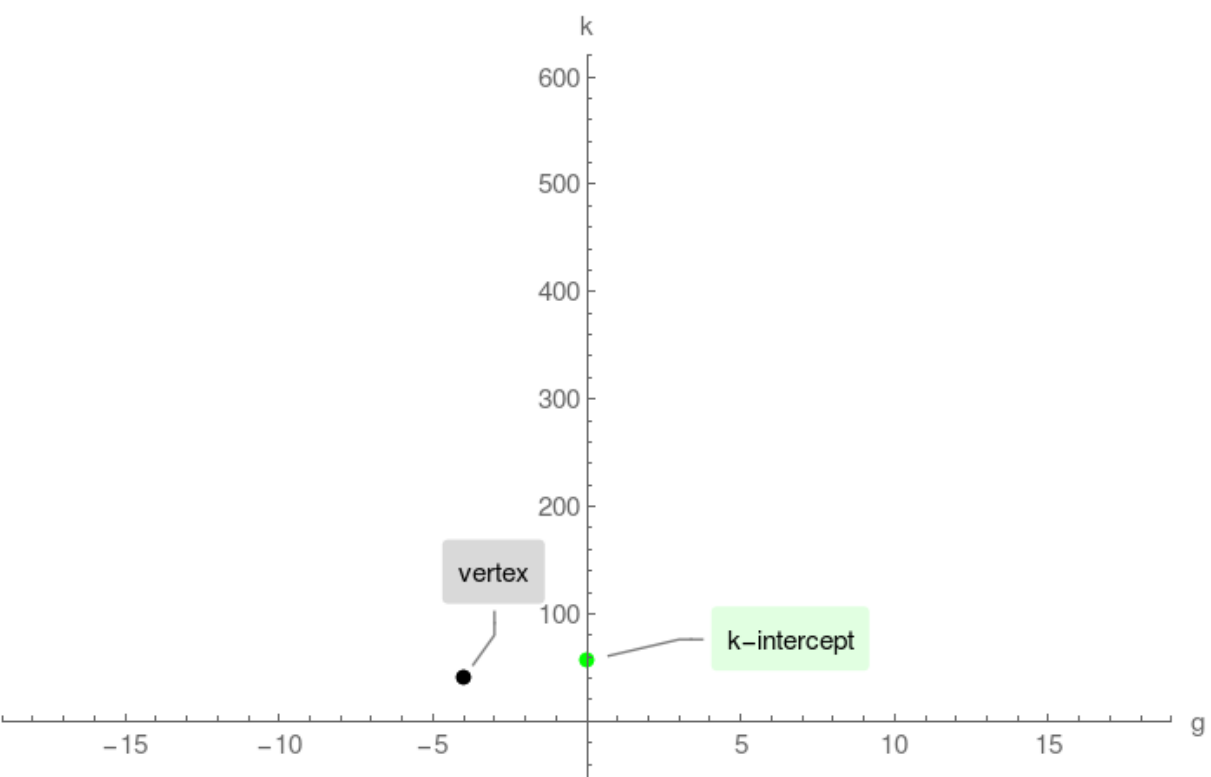
vertex = $(-4, 40)$



Step 2.

Compute k-intercept and plot single point:

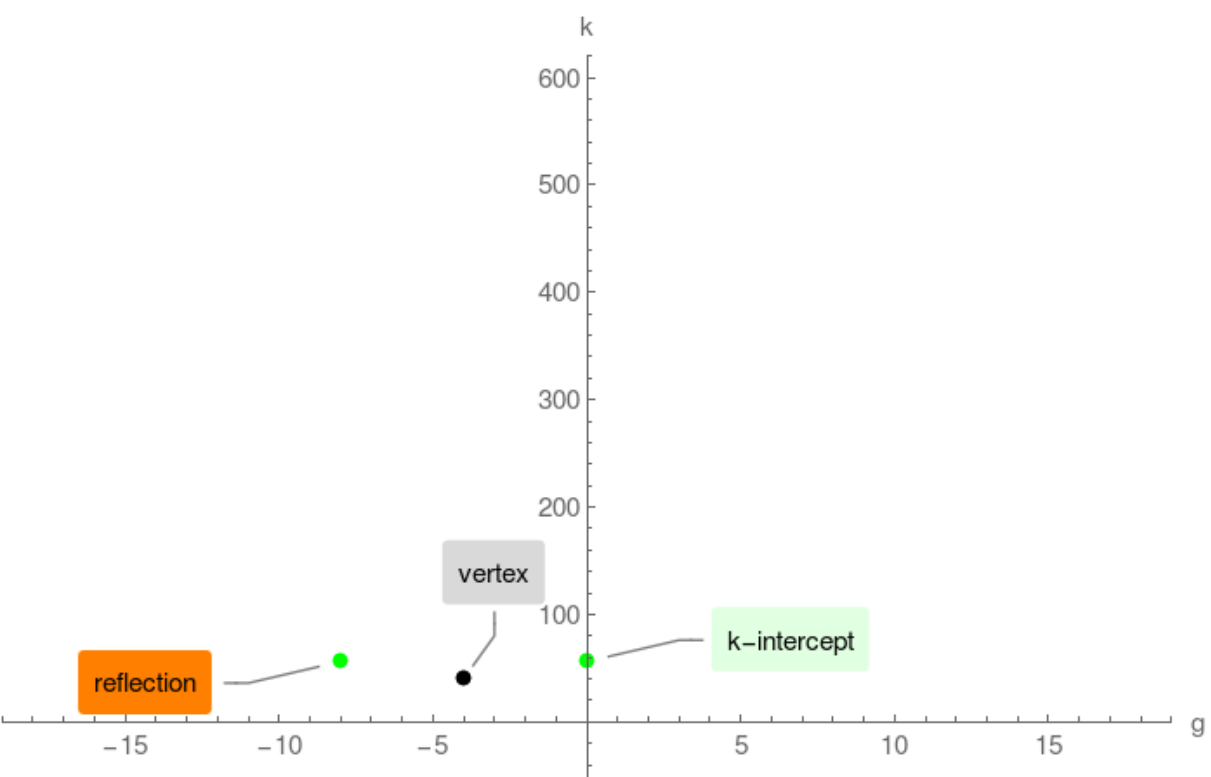
k-intercept = $(0, 56)$



Step 3.

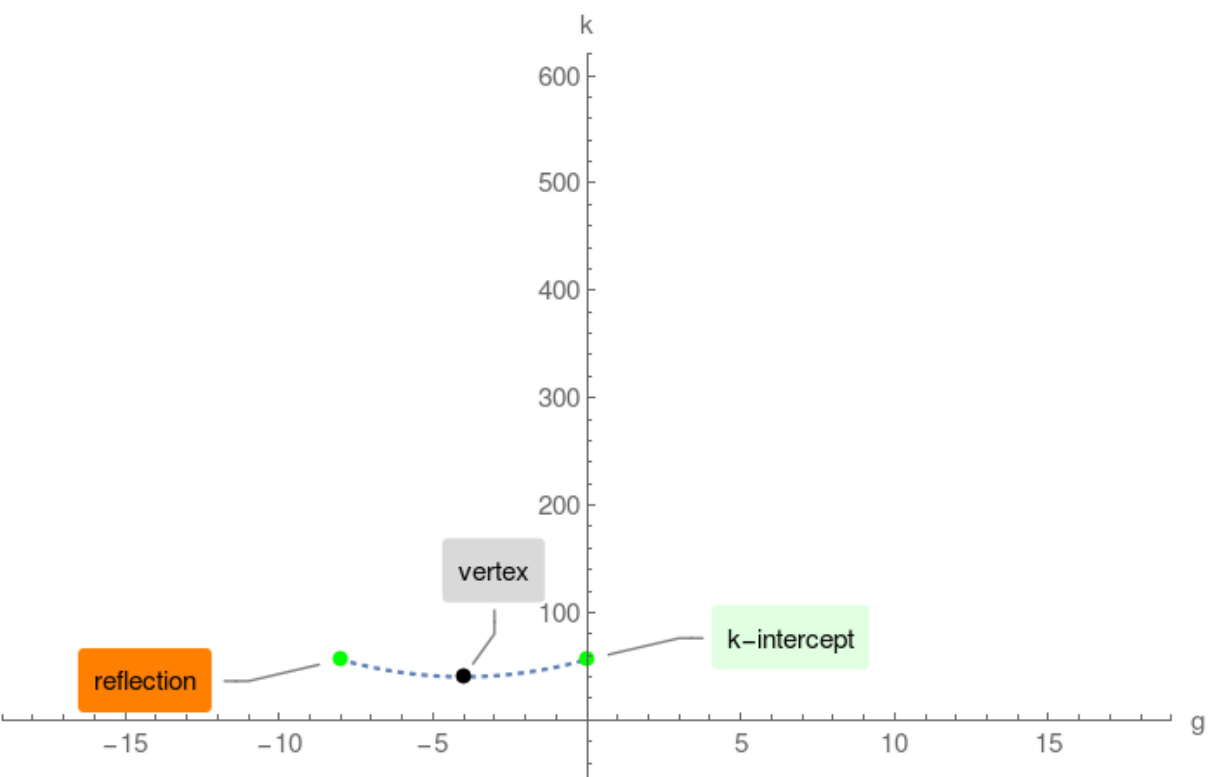
Compute k-intercept reflected against vertex,

reflection = $(-8, 56)$



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts

