

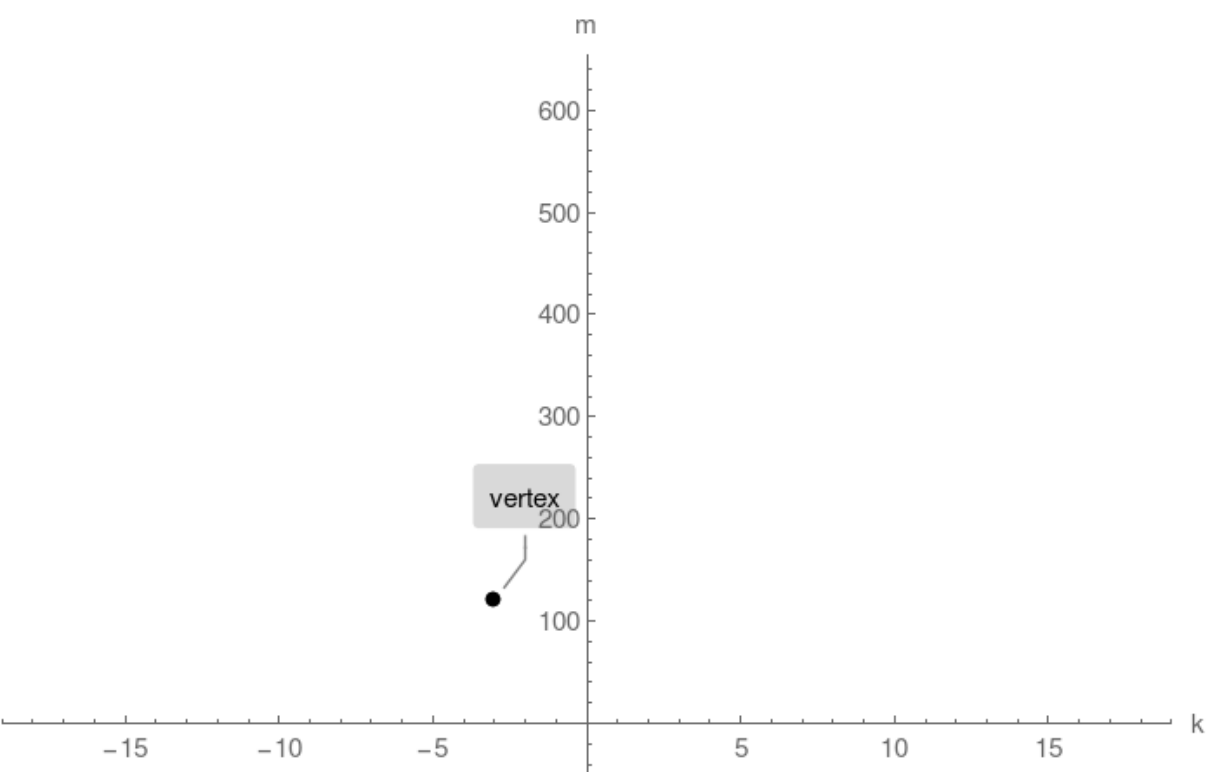
Example 2. No horizontal intercepts found

Plot $m(k) = k^2 + 6k + 129$

Step 1.

Compute vertex and plot single point:

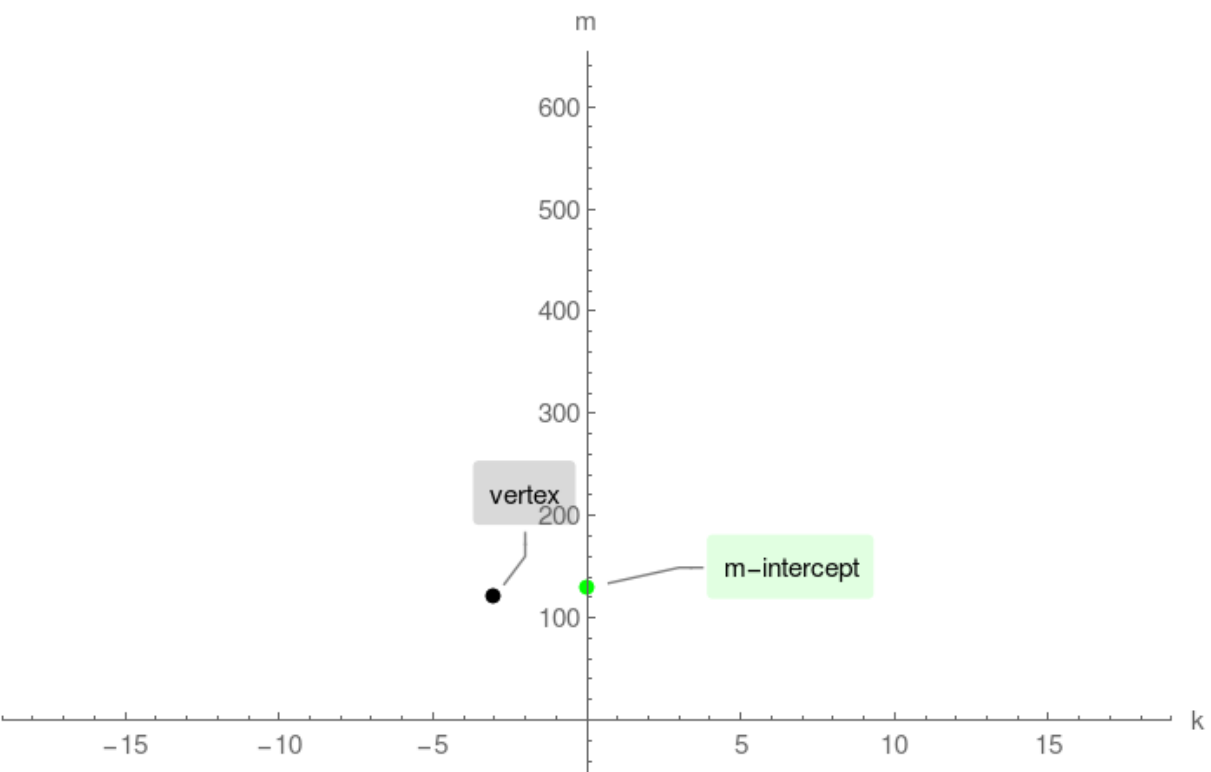
vertex = $(-3, 120)$



Step 2.

Compute m-intercept and plot single point:

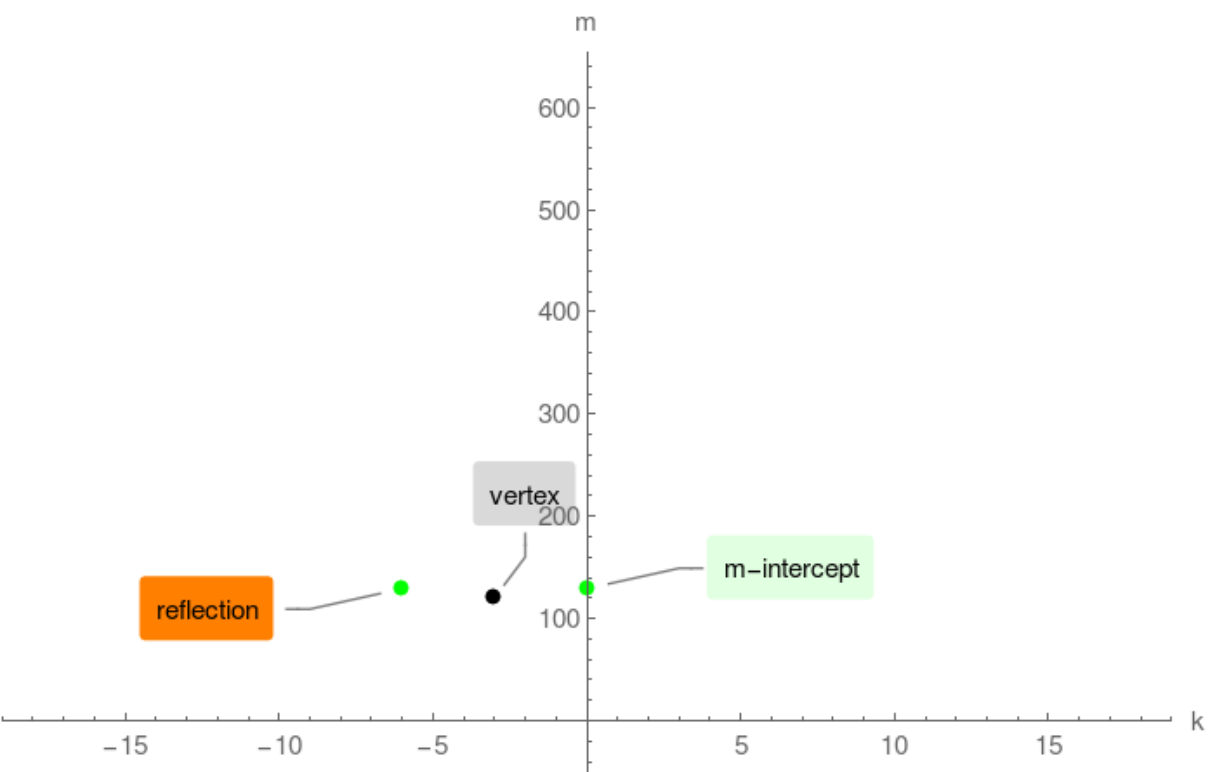
m-intercept = $(0, 129)$



Step 3.

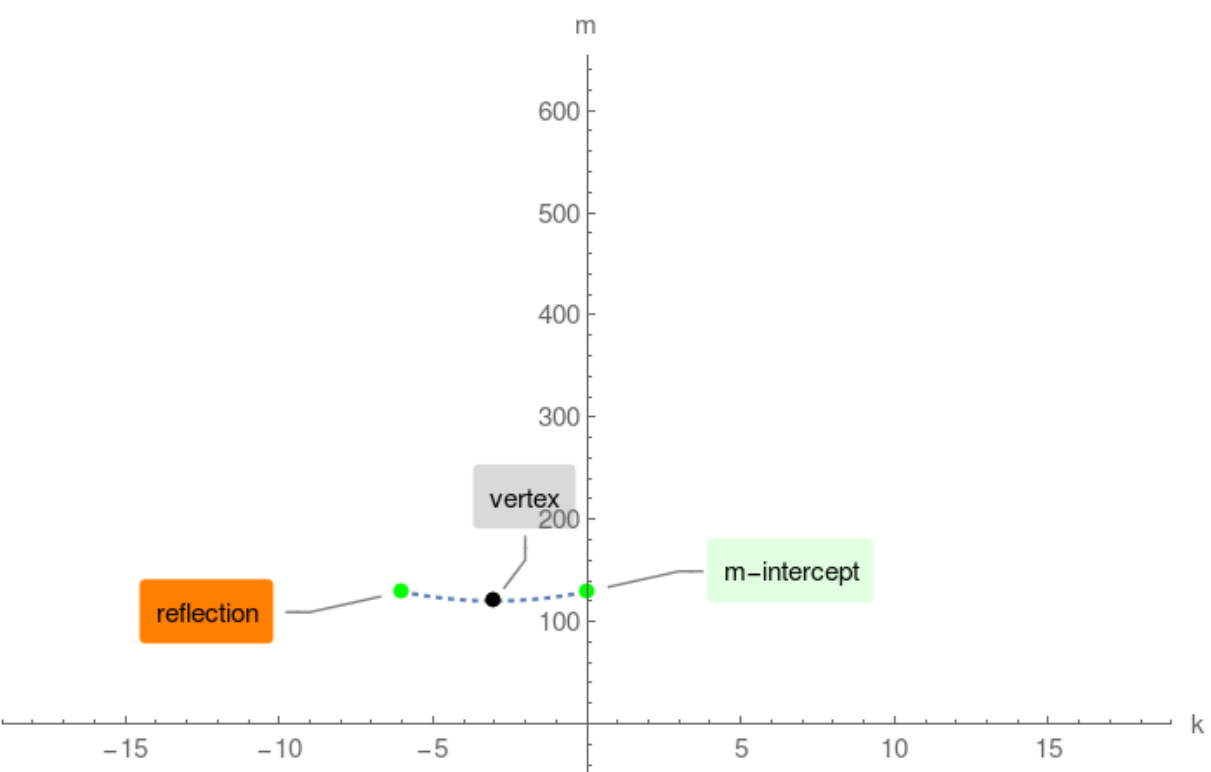
Compute m-intercept reflected against vertex,

reflection = $(-6, 129)$



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts

