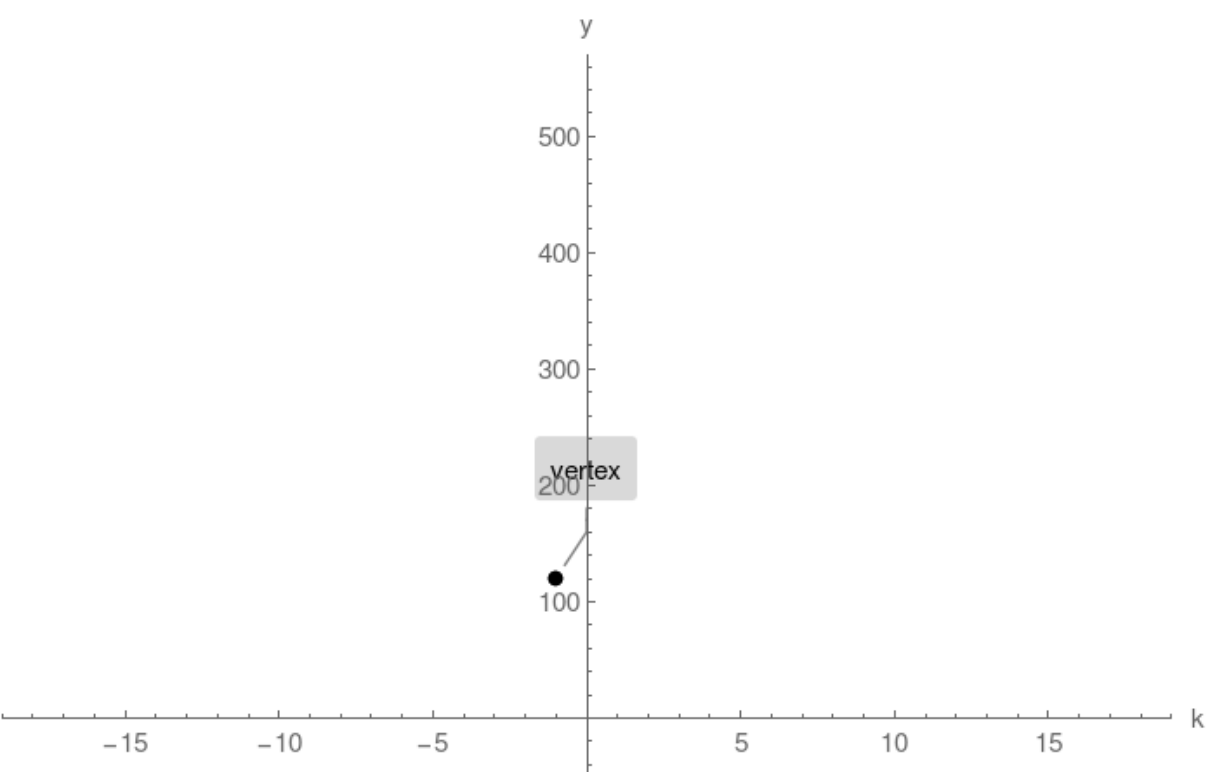# Example 2. No horizontal intercepts found

Plot $y(k) = k^2 + 2k + 121$
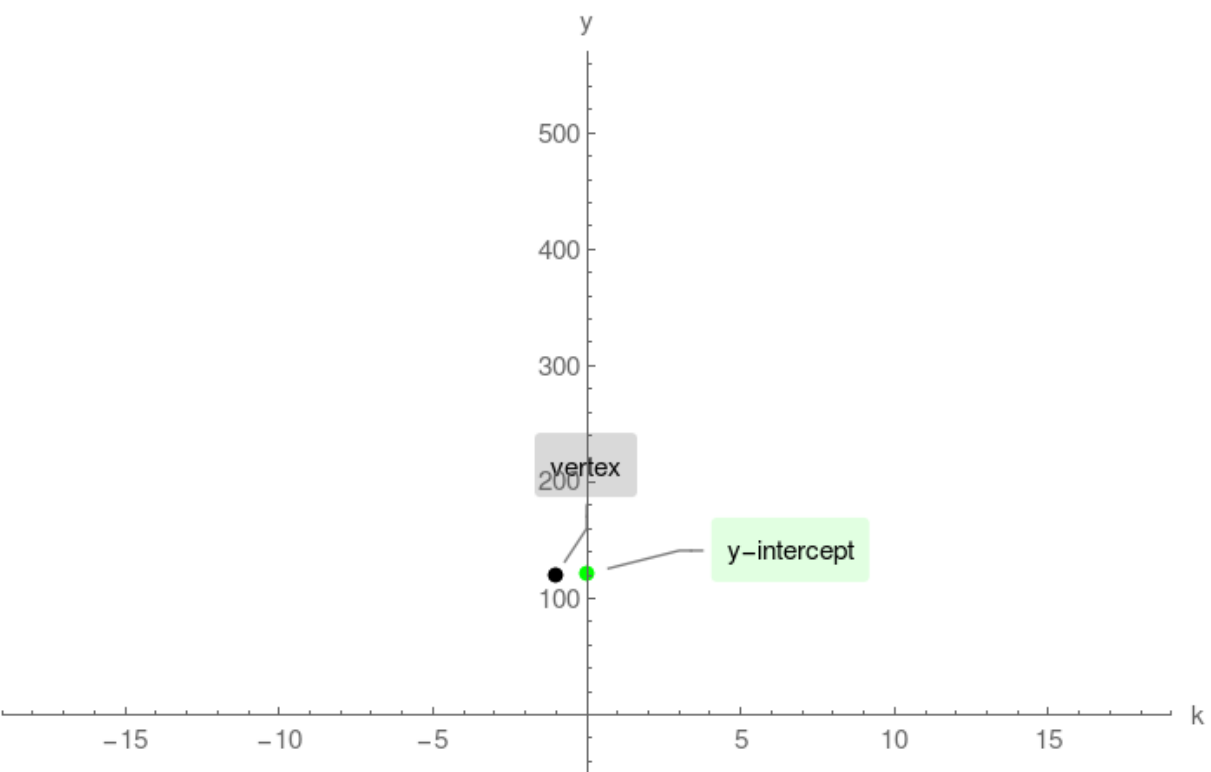
Step 1.
Compute vertex and plot single point:
vertex = $(-1, 120)$

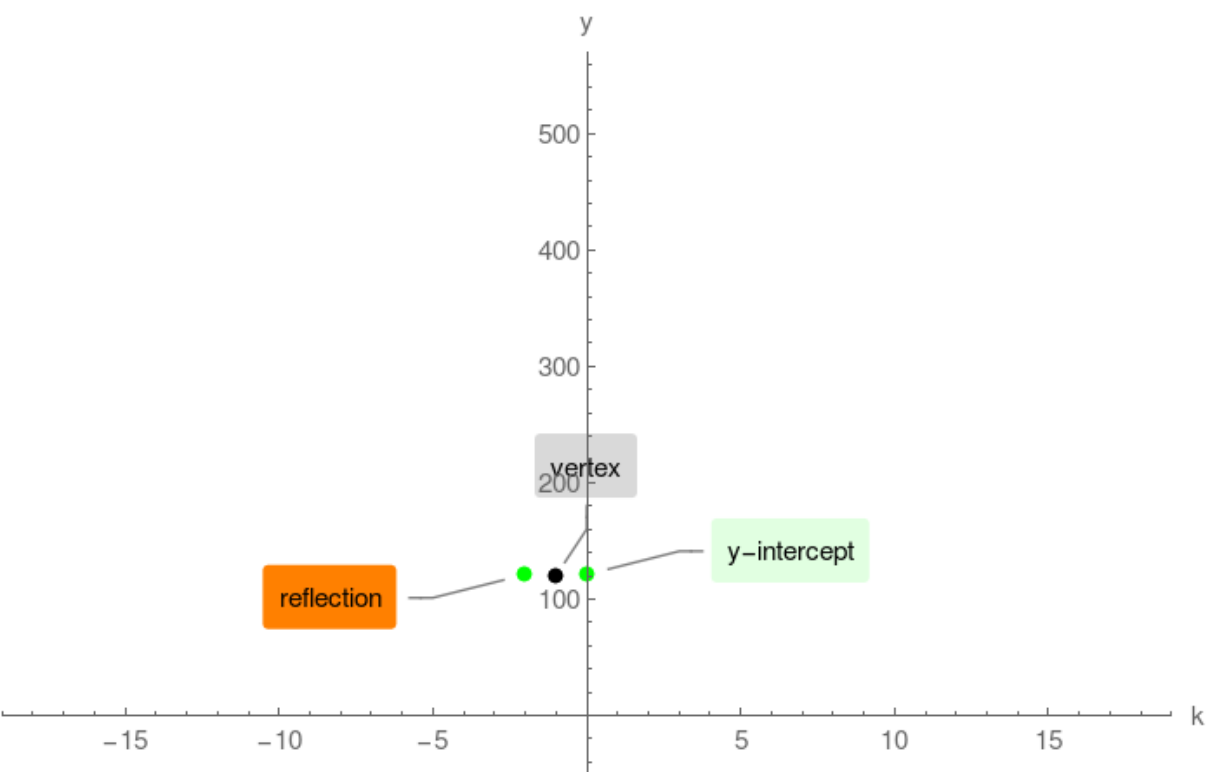
Step 2.
Compute y-intercept and plot single point:
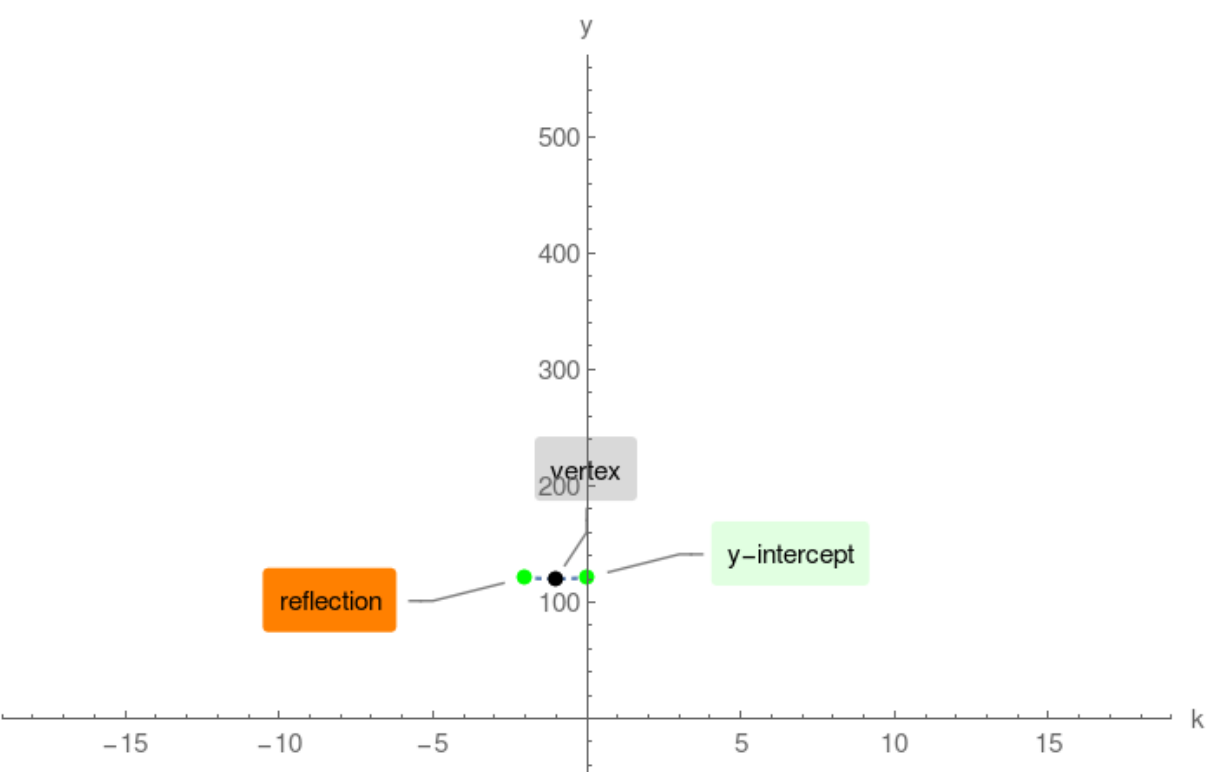y-intercept = $(0, 121)$

Step 3.
Compute y-intercept reflected against vertex,
reflection = $(-2, 121)$

Step 4.
connect the above computed points:

Step 5.
Extend the parabola beyond the range of intercepts