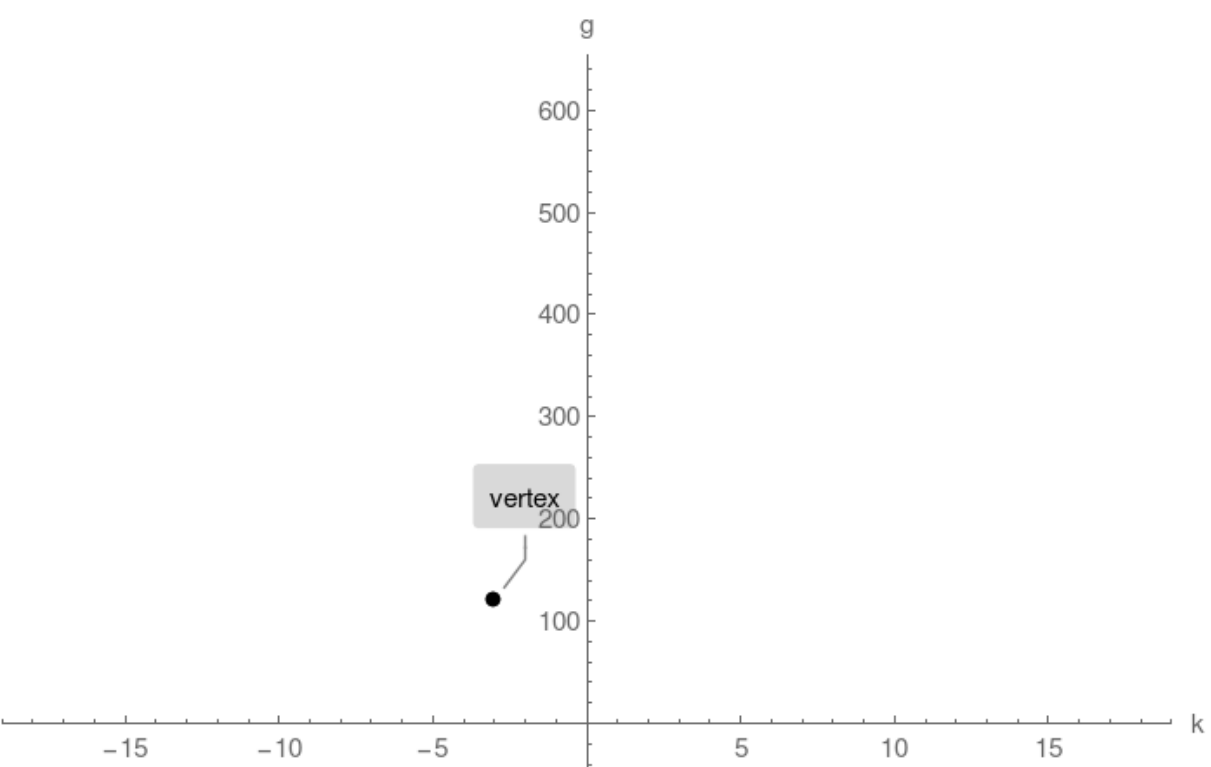# Example 2. No horizontal intercepts found

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

Step 1.
Compute vertex and plot single point:
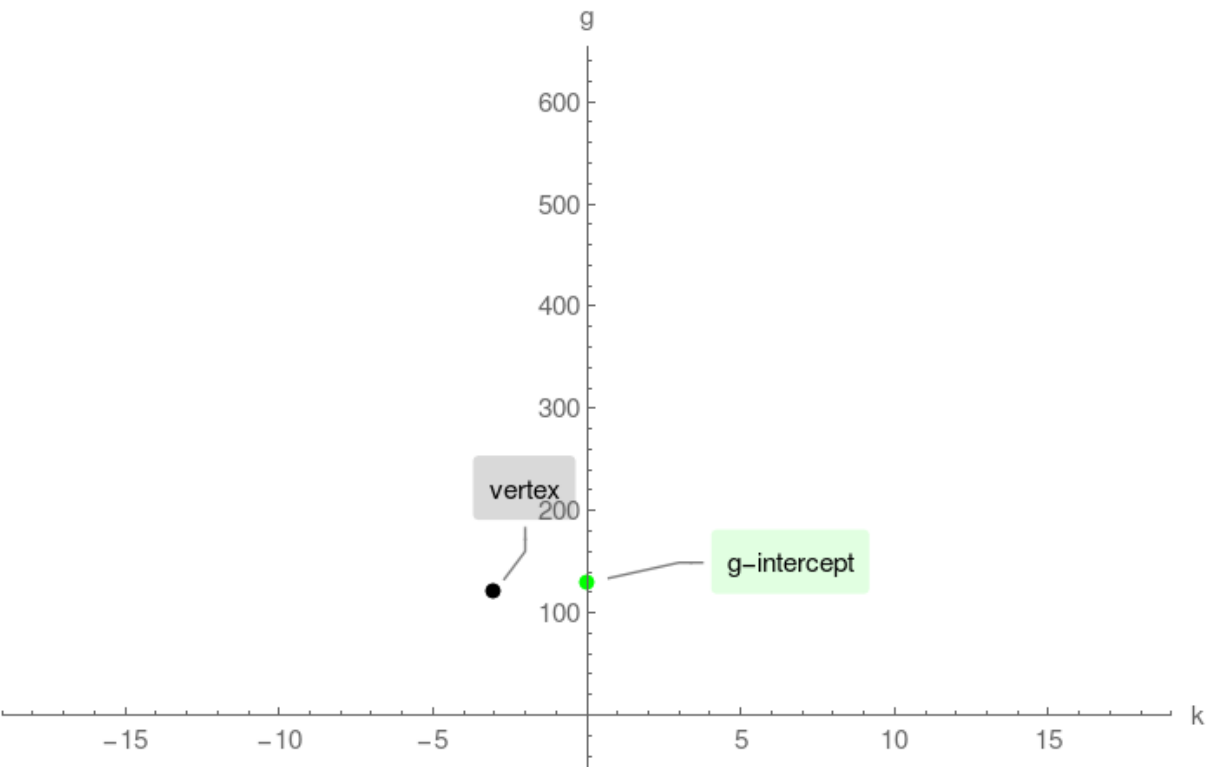vertex = $(-3, 120)$

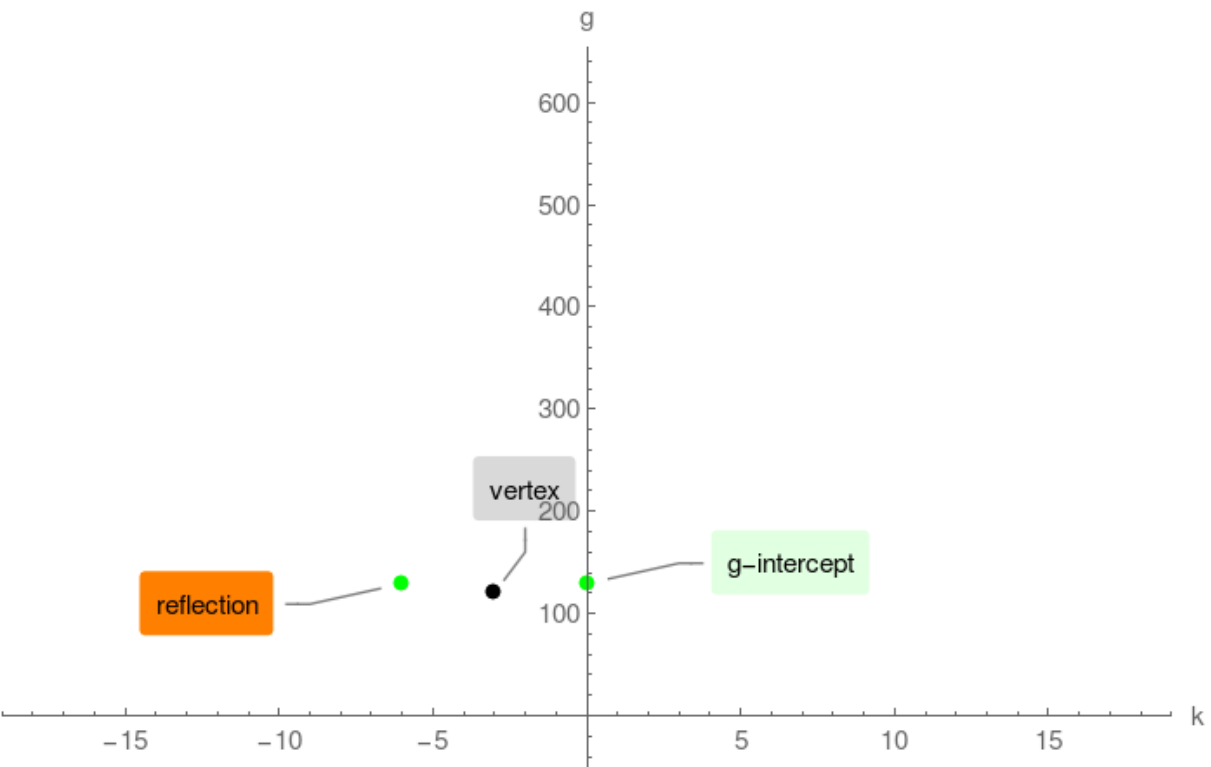**Step 2.**
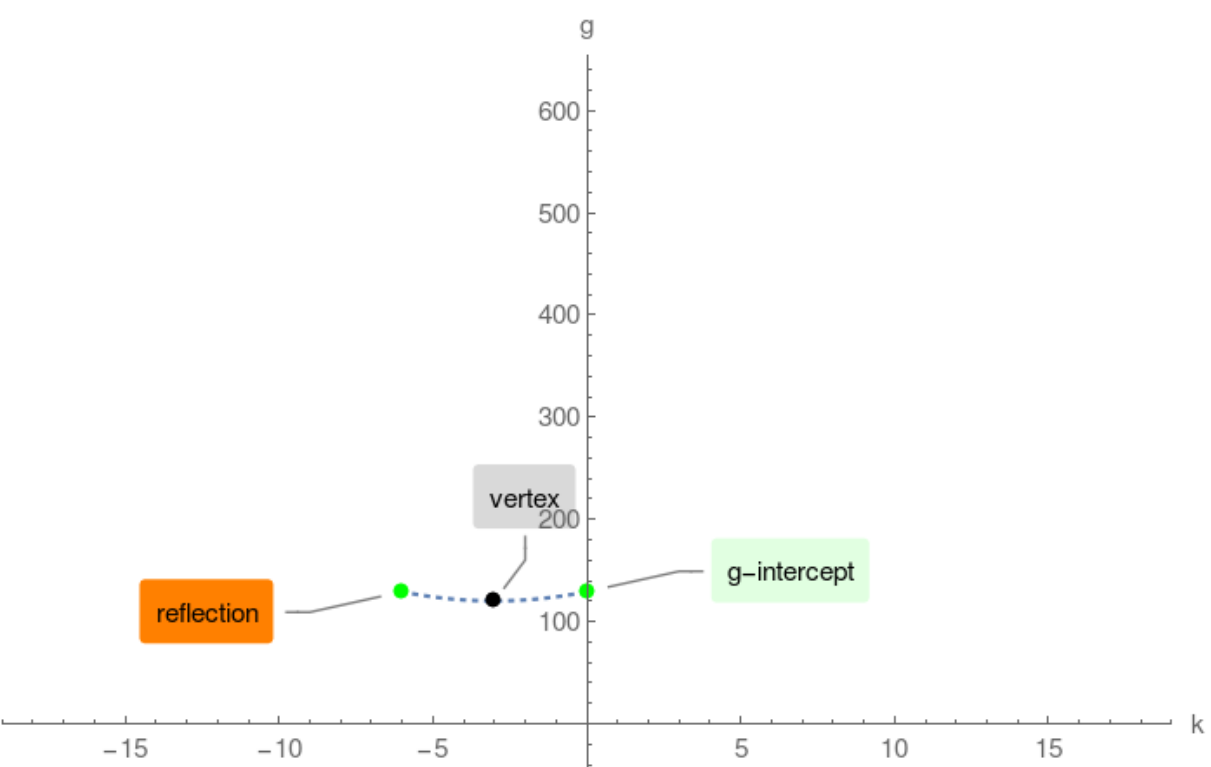Compute g-intercept and plot single point:
g-intercept = $(0, 129)$

Step 3.
Compute g-intercept reflected against vertex,
reflection = $(-6, 129)$

Step 4.
connect the above computed points:

Step 5.
Extend the parabola beyond the range of intercepts