

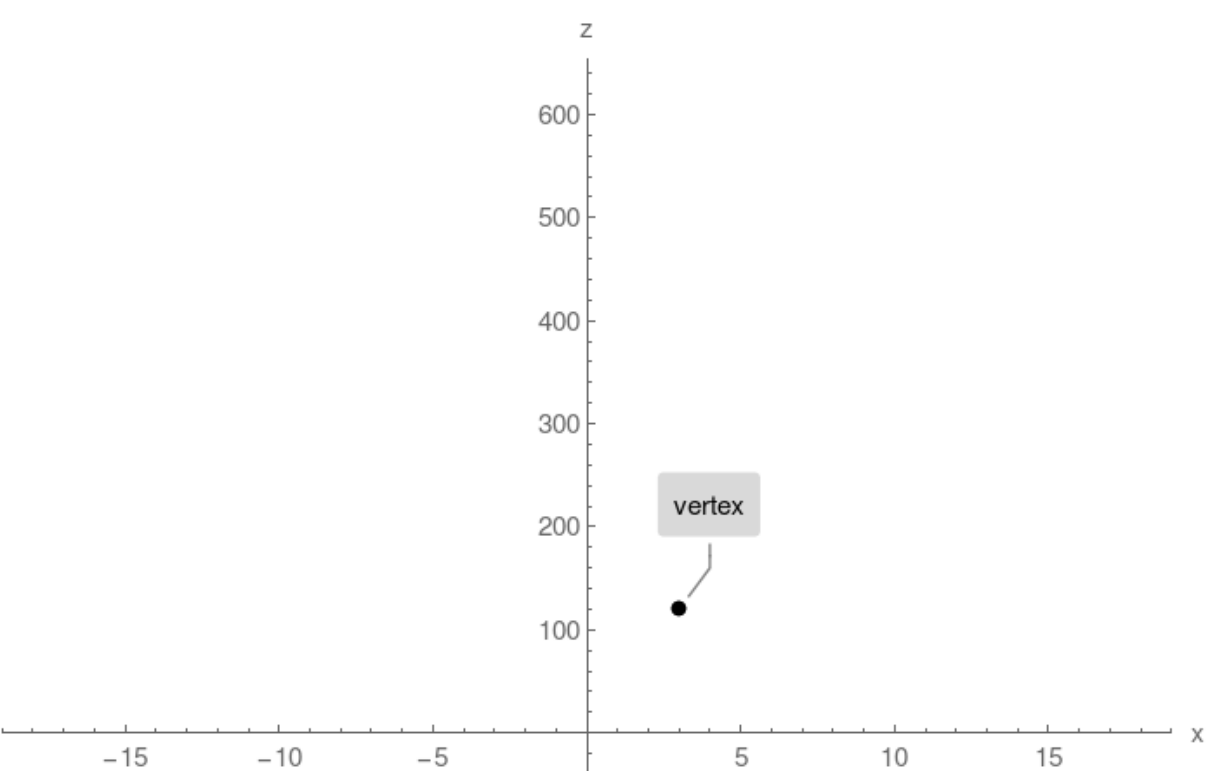
Example 2. No horizontal intercepts found

Plot $z(x) = x^2 - 6x + 129$

Step 1.

Compute vertex and plot single point:

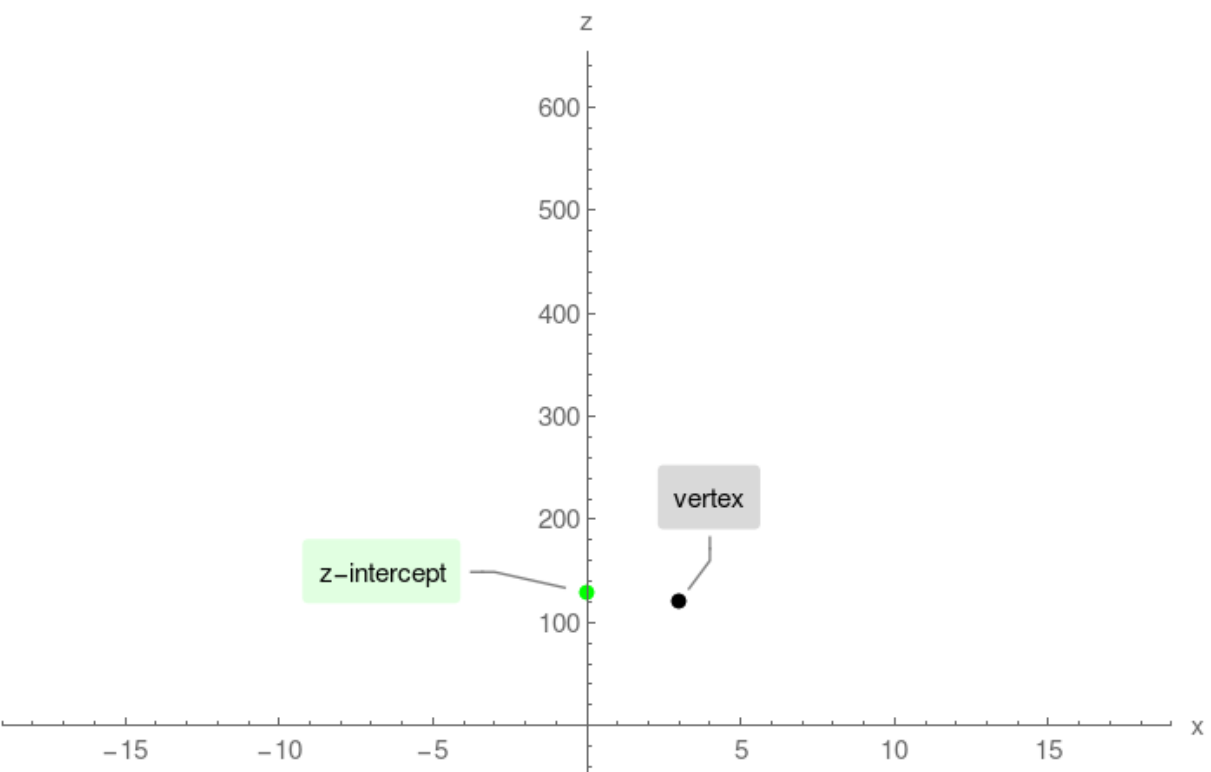
vertex = (3, 120)



Step 2.

Compute z-intercept and plot single point:

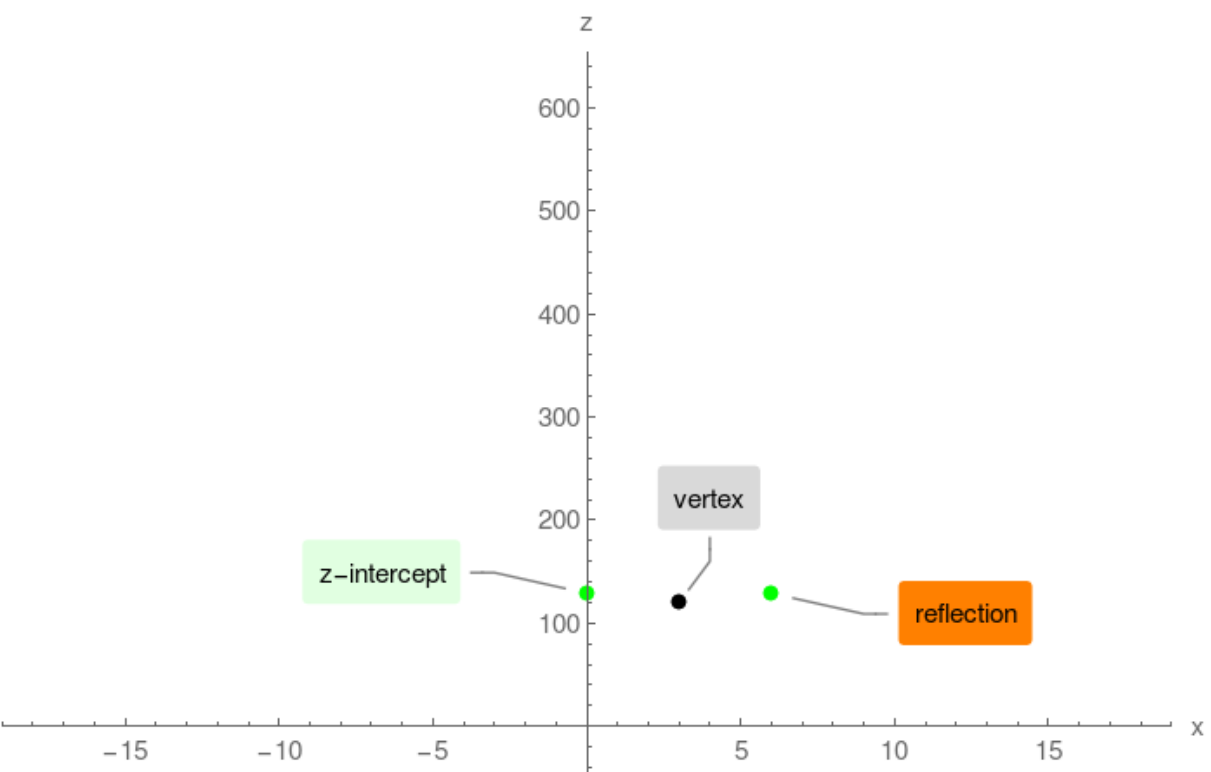
z-intercept = (0, 129)



Step 3.

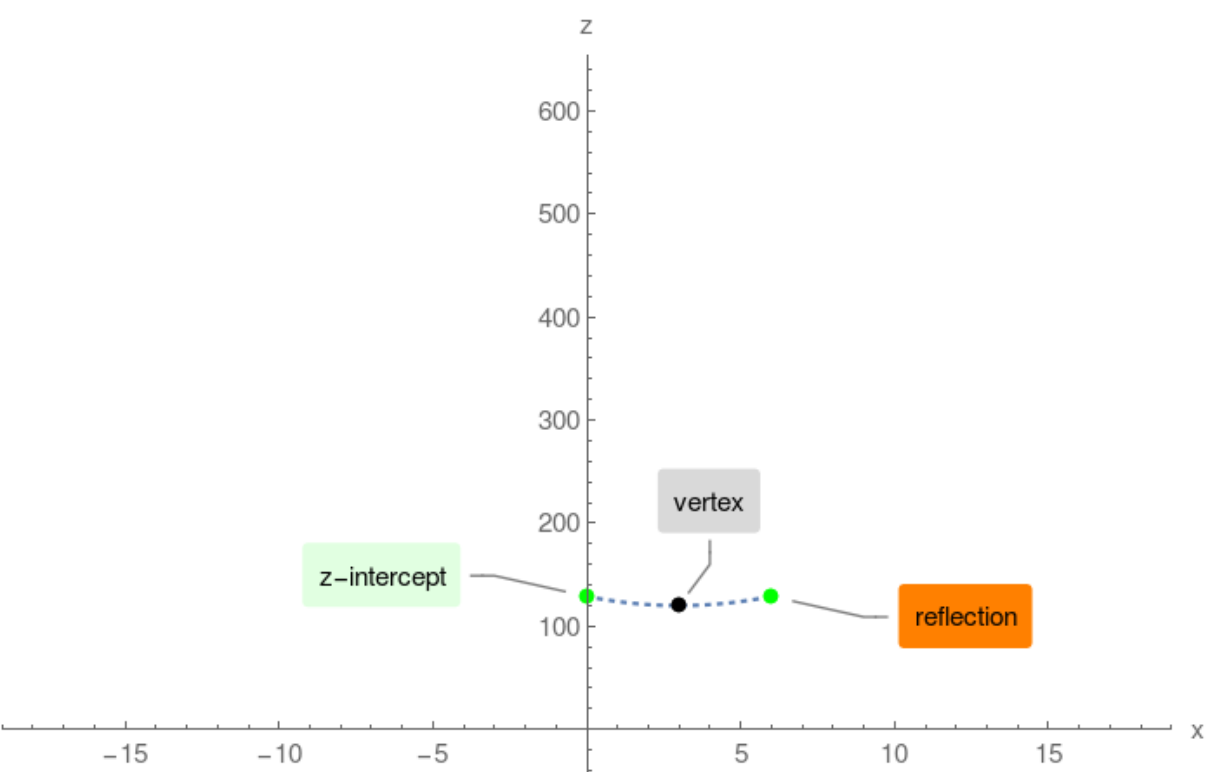
Compute z-intercept reflected against vertex,

reflection = (6, 129)



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts

