

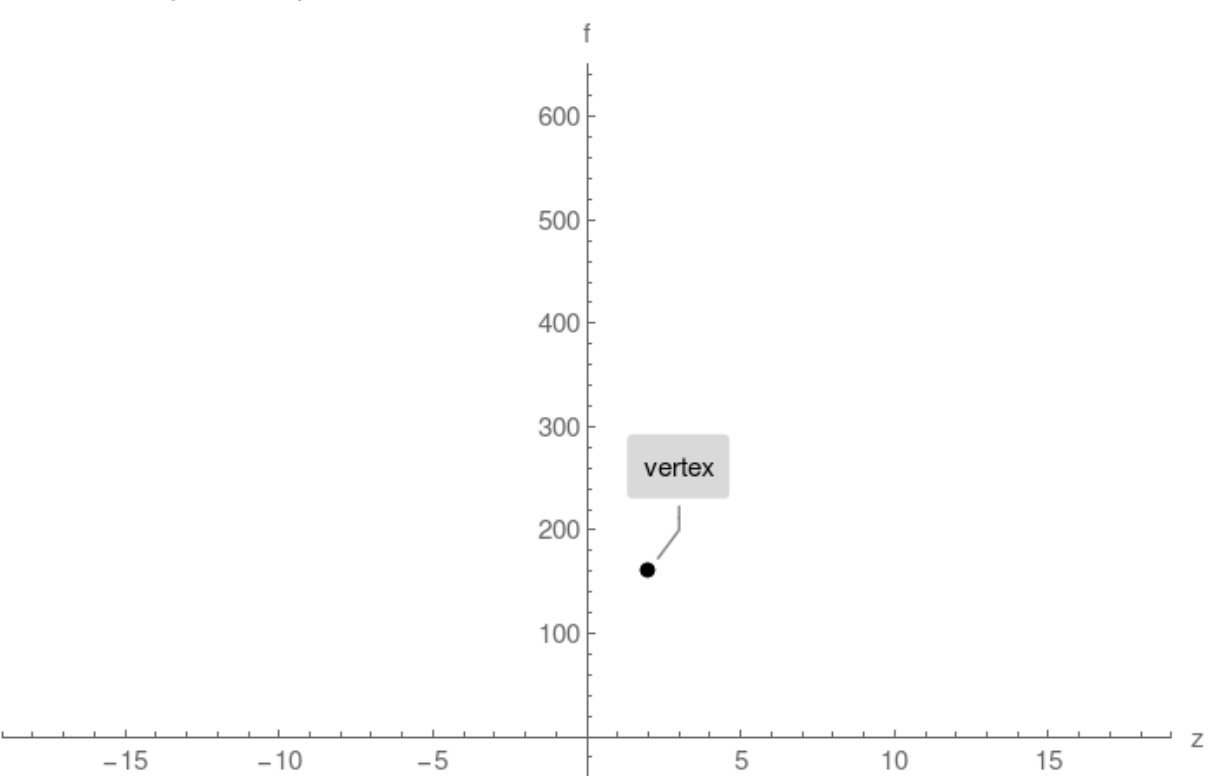
Example 2. No horizontal intercepts found

Plot $f(z) = z^2 - 4z + 164$

Step 1.

Compute vertex and plot single point:

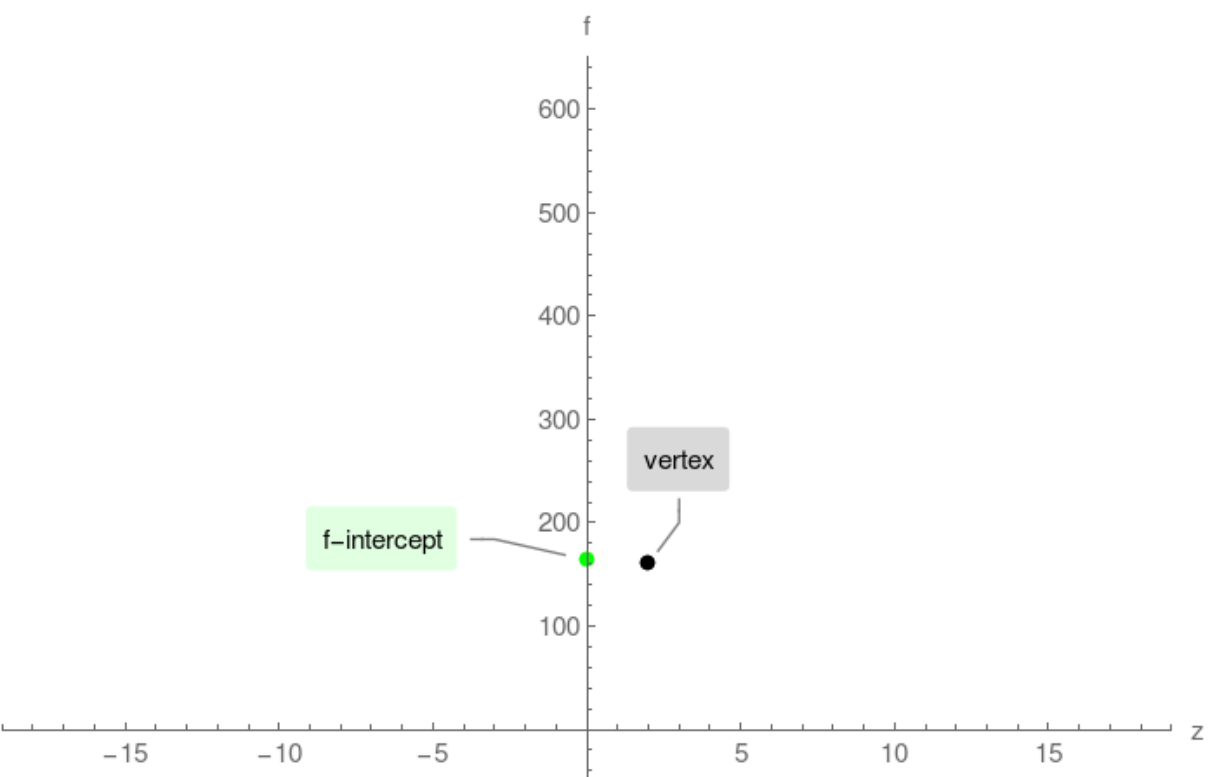
vertex = (2, 160)



Step 2.

Compute f-intercept and plot single point:

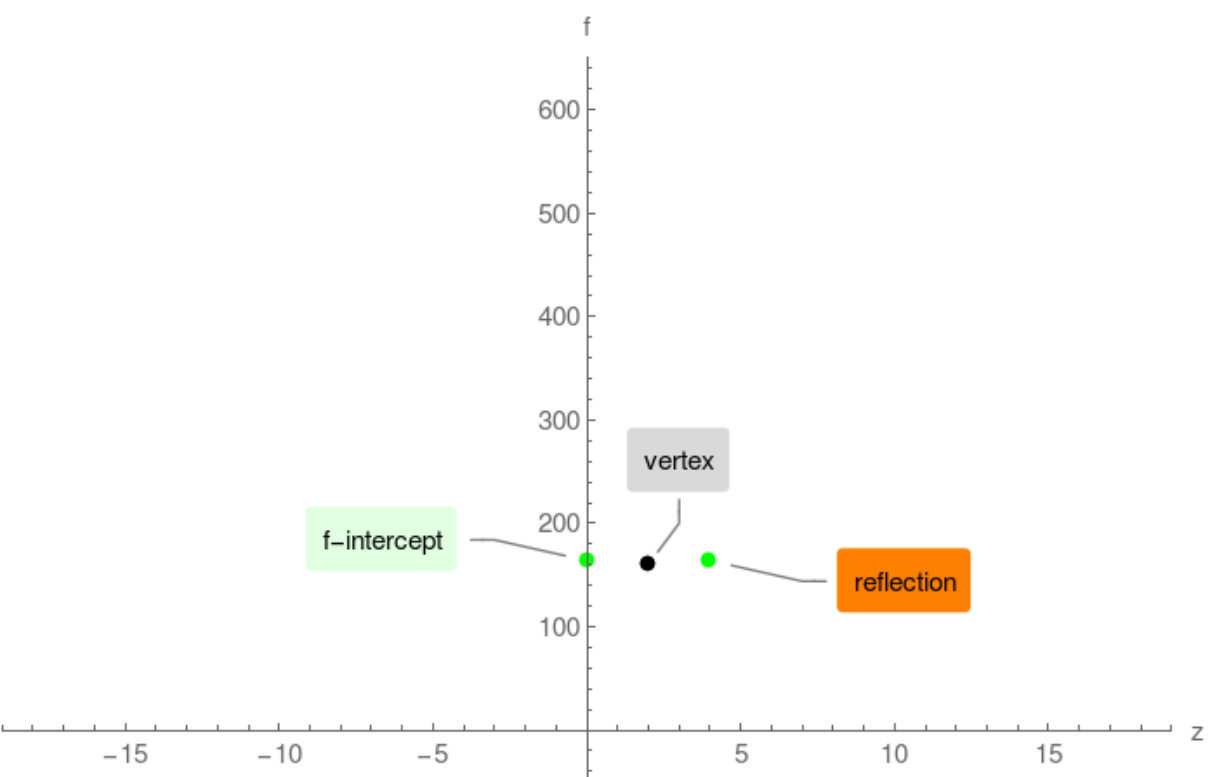
f-intercept = (0, 164)



Step 3.

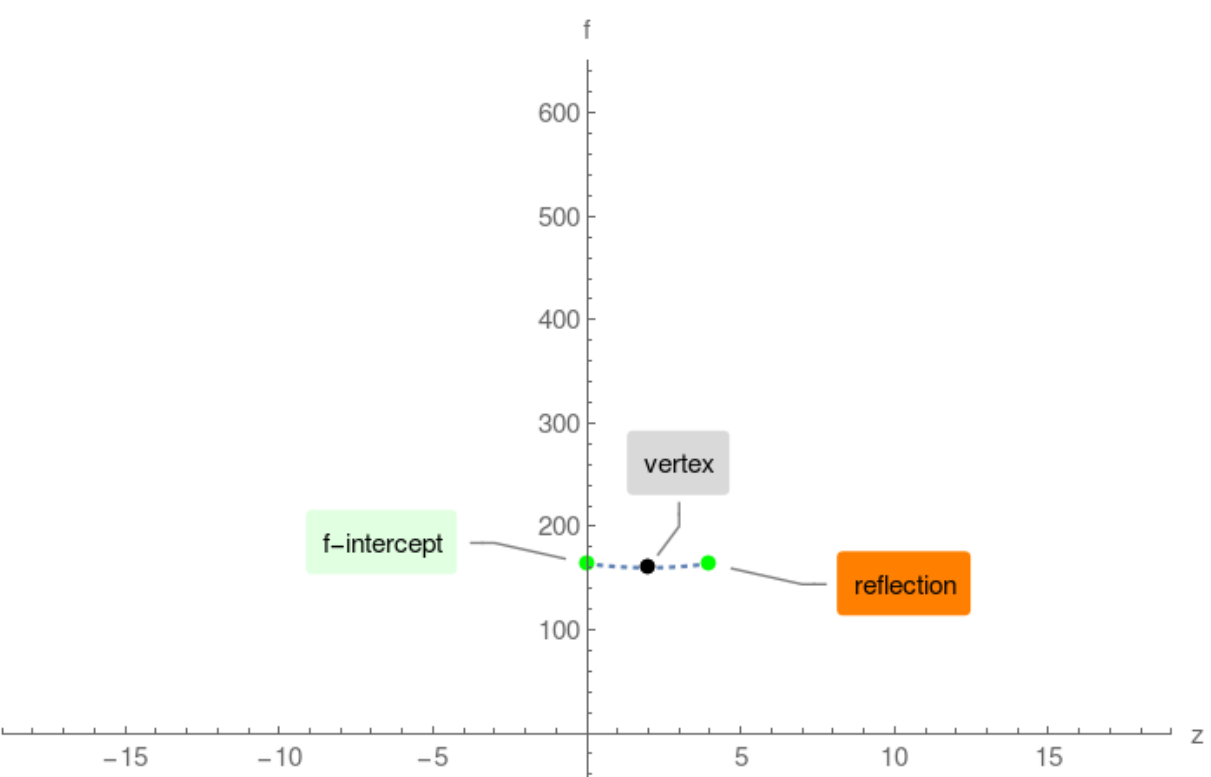
Compute f-intercept reflected against vertex,

reflection = (4, 164)



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts

