

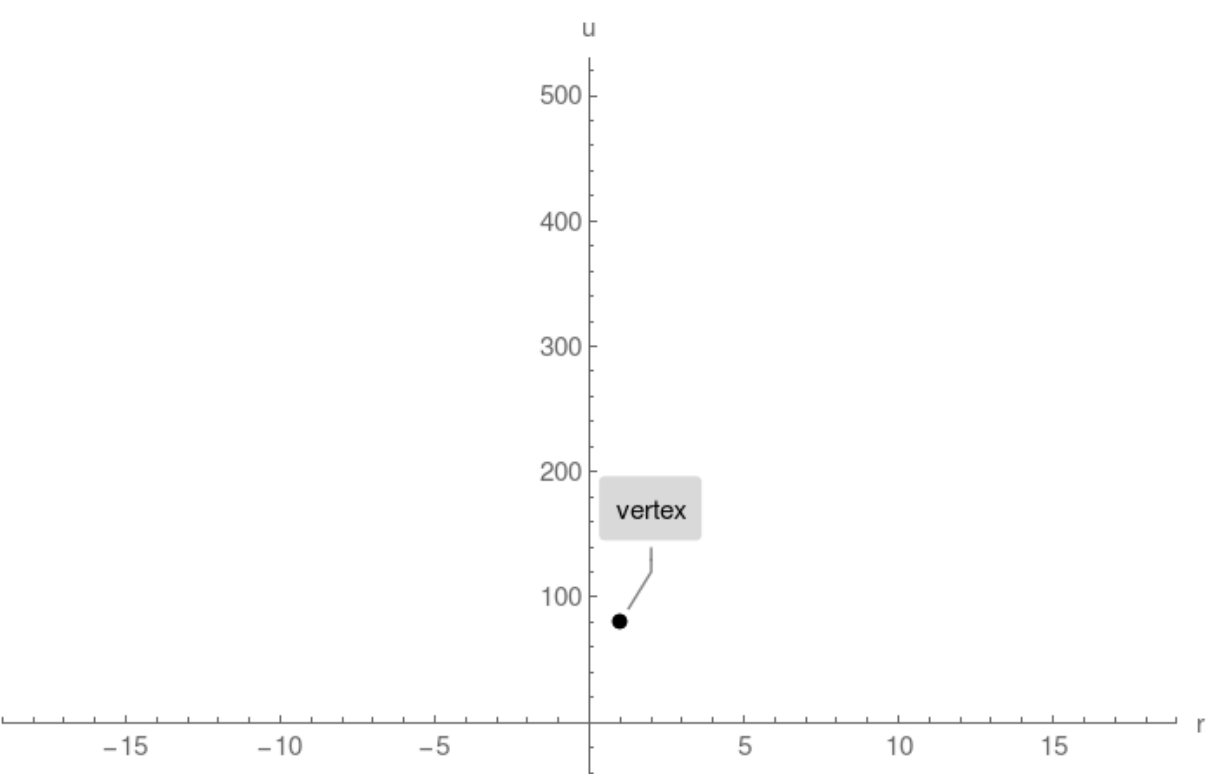
Example 2. No horizontal intercepts found

Plot $u(r) = r^2 - 2r + 81$

Step 1.

Compute vertex and plot single point:

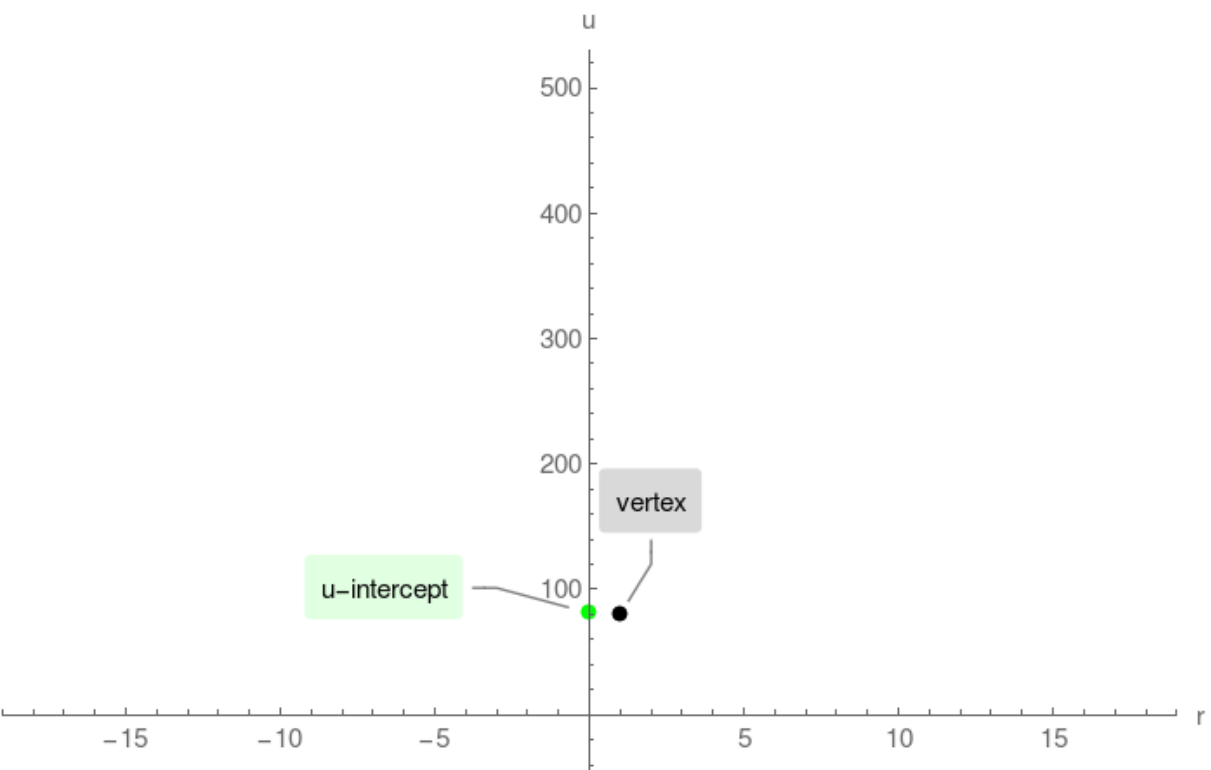
vertex = (1, 80)



Step 2.

Compute u-intercept and plot single point:

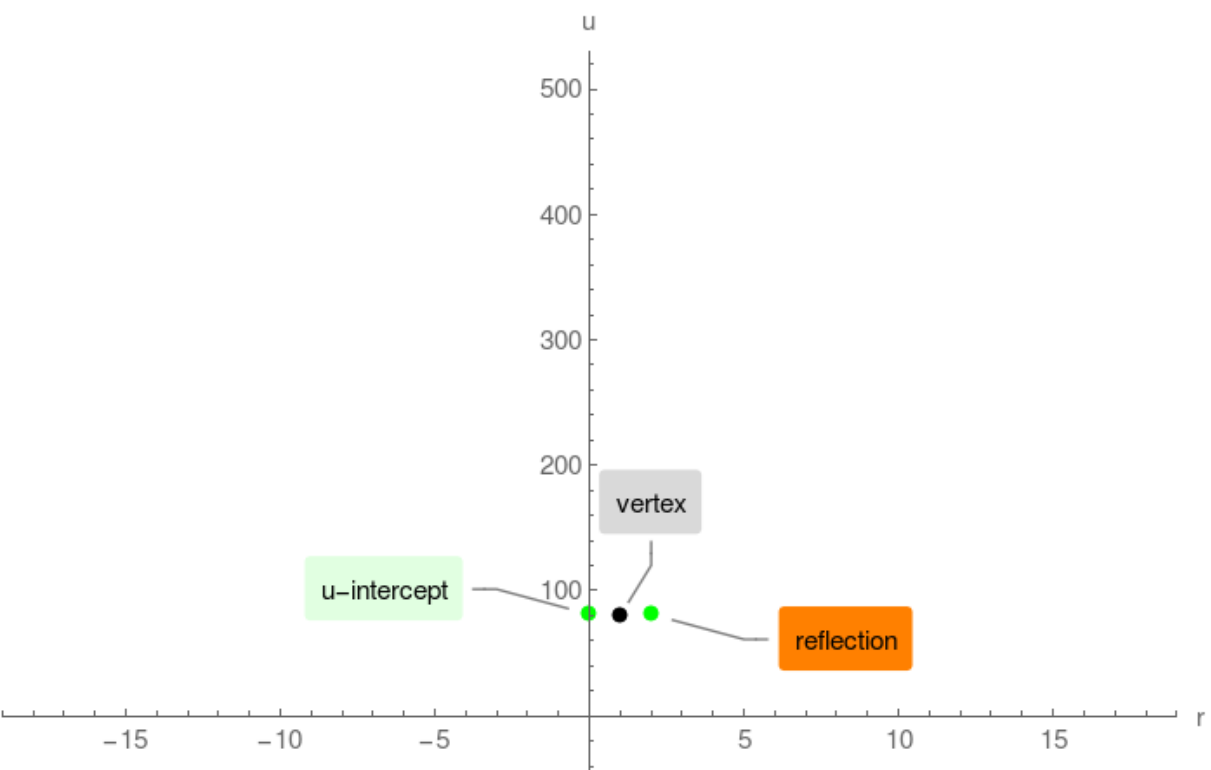
u-intercept = (0, 81)



Step 3.

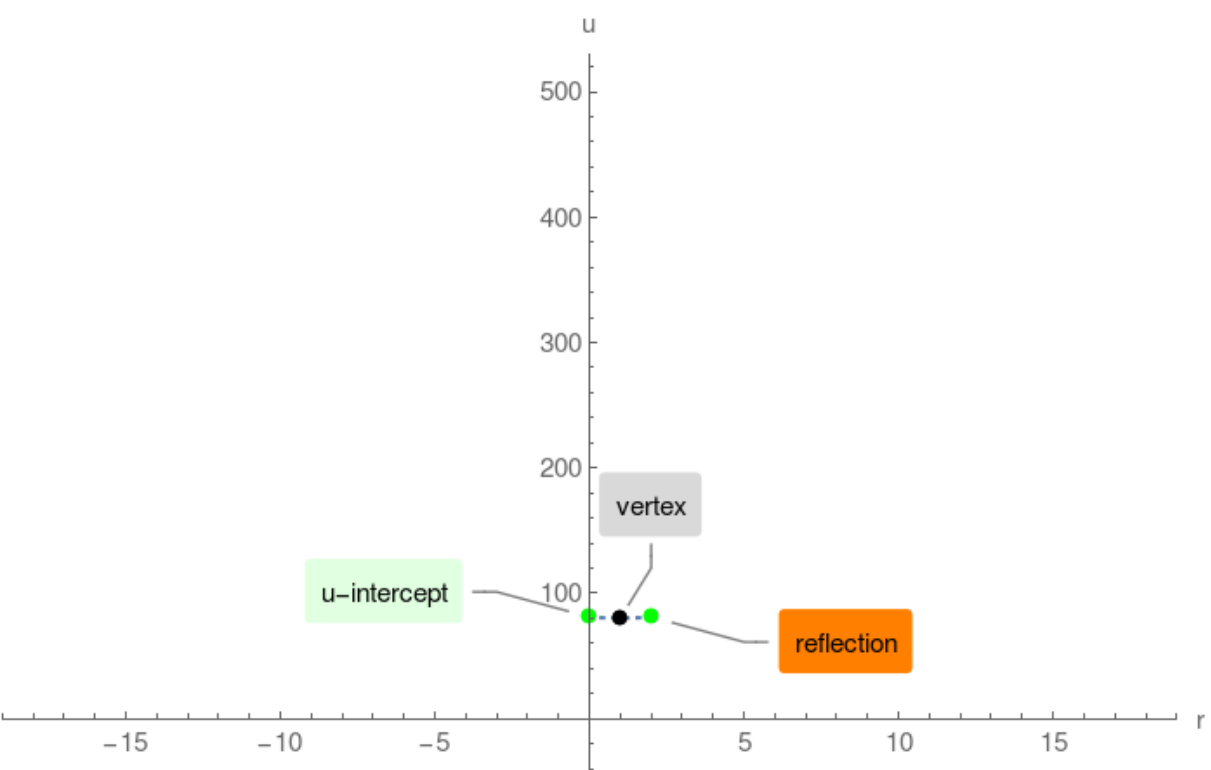
Compute u-intercept reflected against vertex,

reflection = (2, 81)



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts

