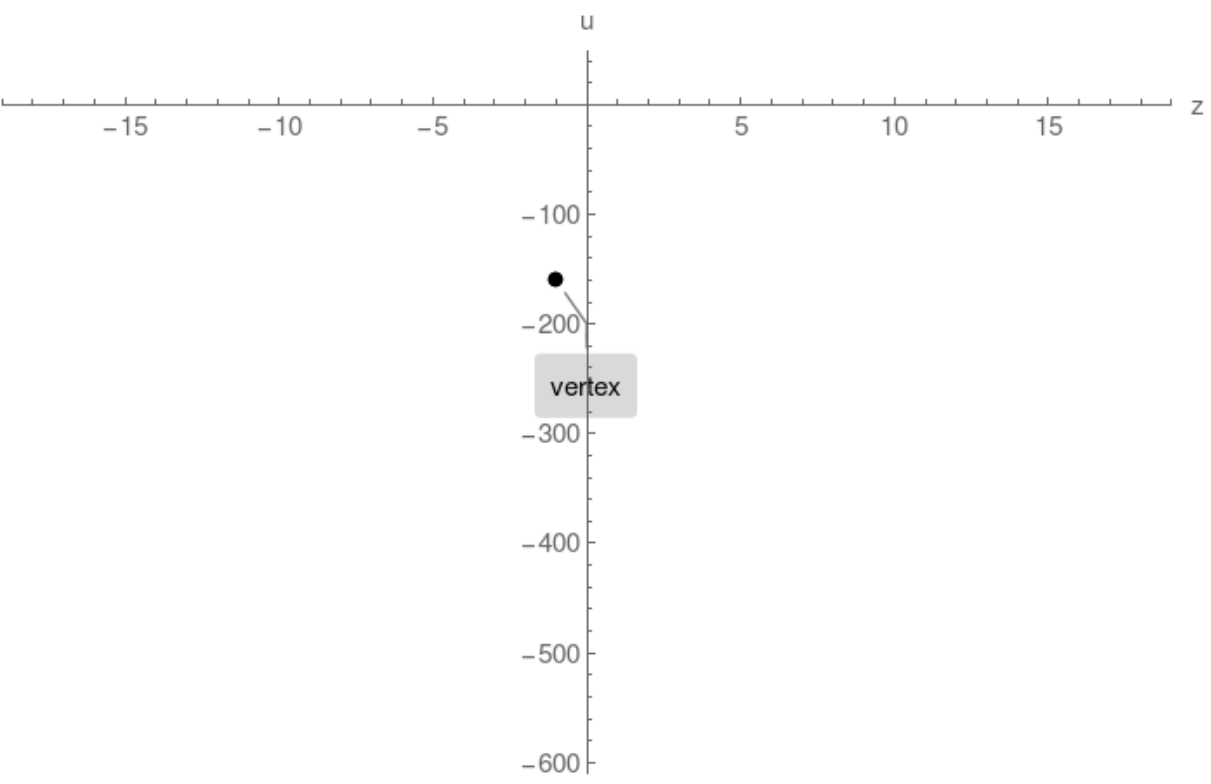
# Example 2. No horizontal intercepts found

Plot $u(z) = -z^2 - 2z - 161$

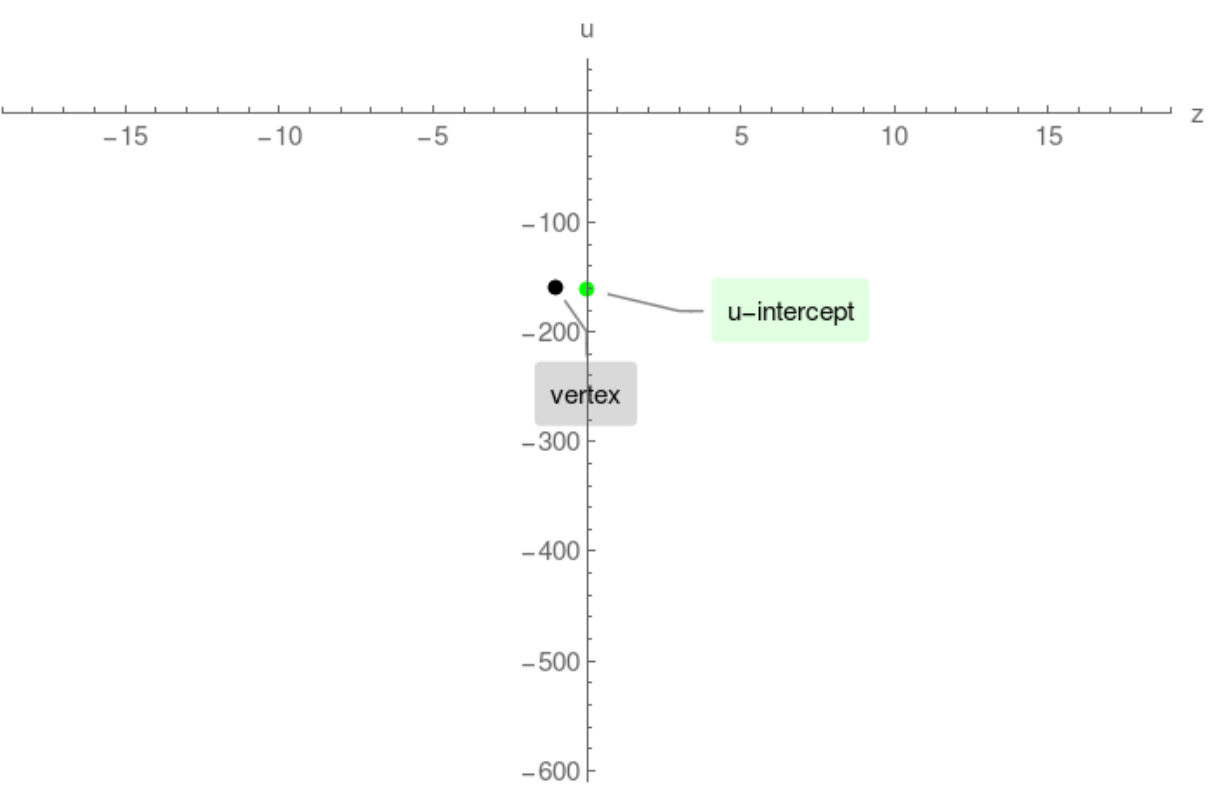
## Step 1.

Compute vertex and plot single point:
vertex$=(-1,-160)$



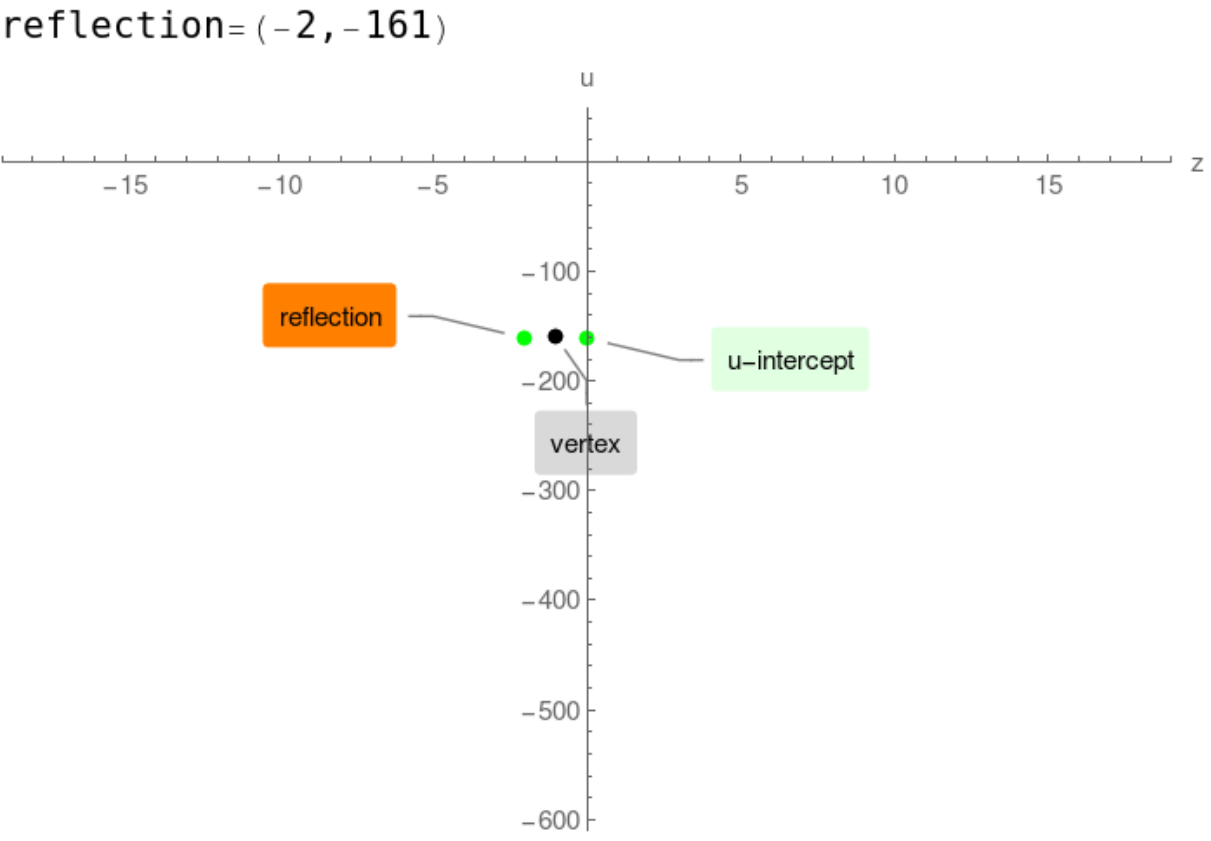

## Step 2.

Compute u-intercept and plot single point:
u-intercept$=(0,-161)$



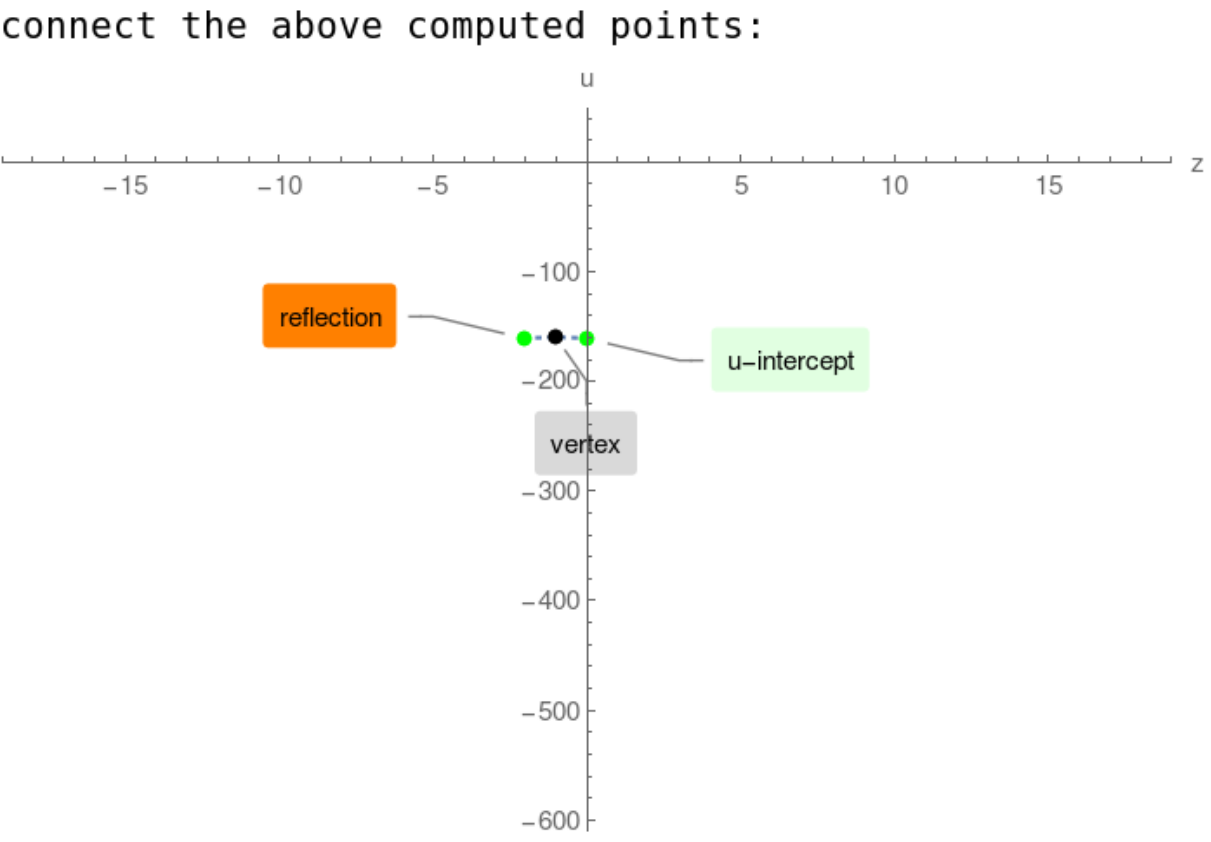

## Step 3.

Compute u-intercept reflected against vertex,
reflection$=(-2,-161)$




## Step 4.

connect the above computed points:




## Step 5.

Extend the parabola beyond the range of intercepts