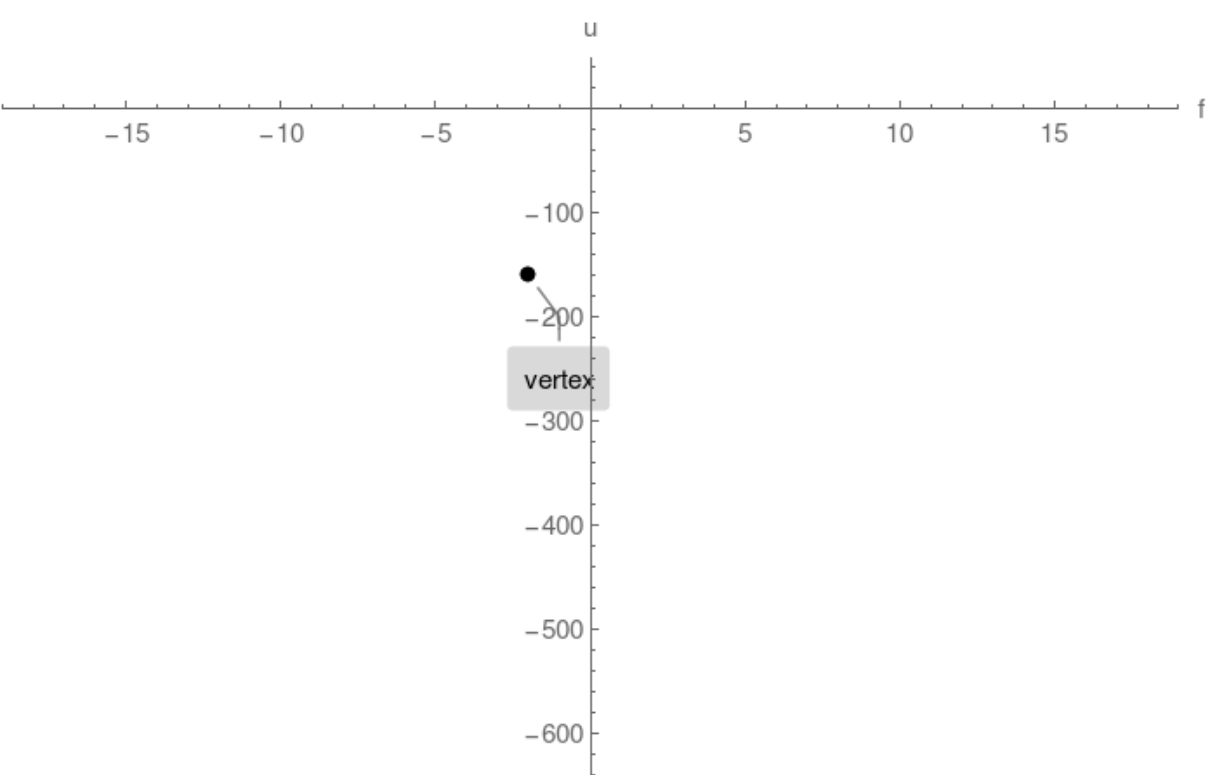# Example 2. No horizontal intercepts found

Plot $u(f) = -f^2 - 4f - 164$

Step 1.
Compute vertex and plot single point:
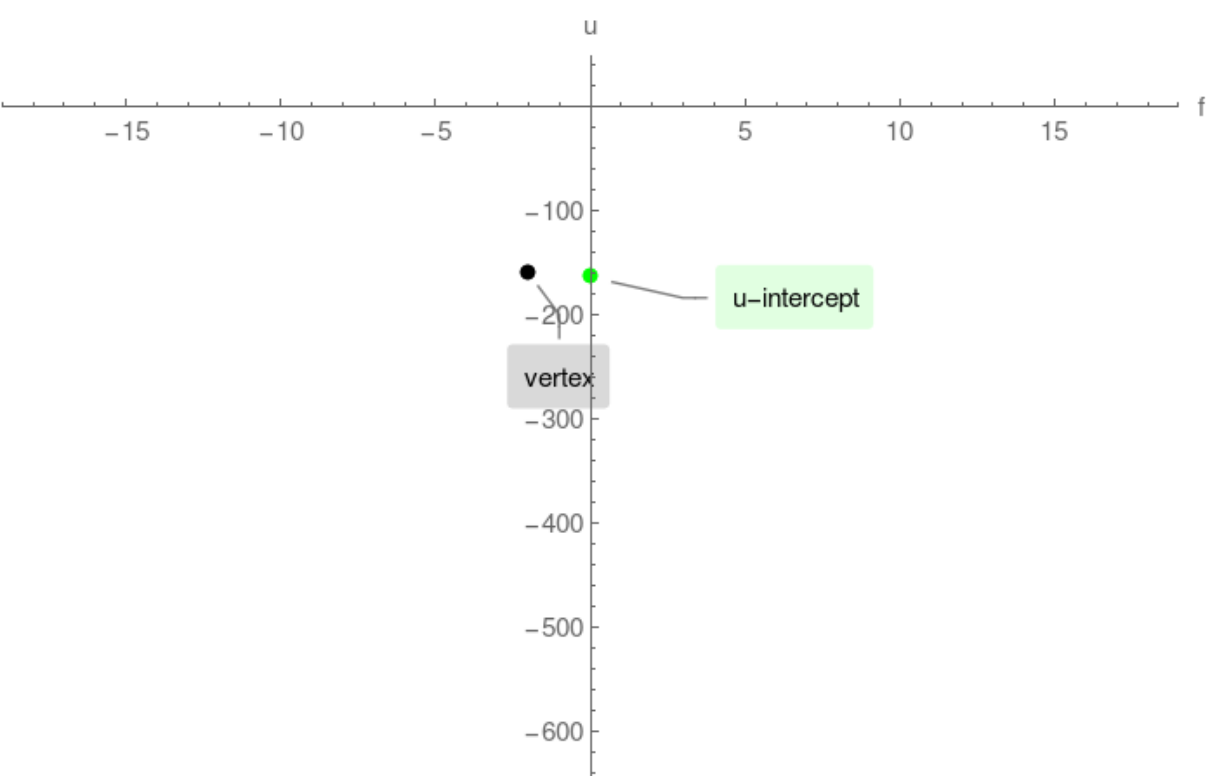vertex = $(-2, -160)$

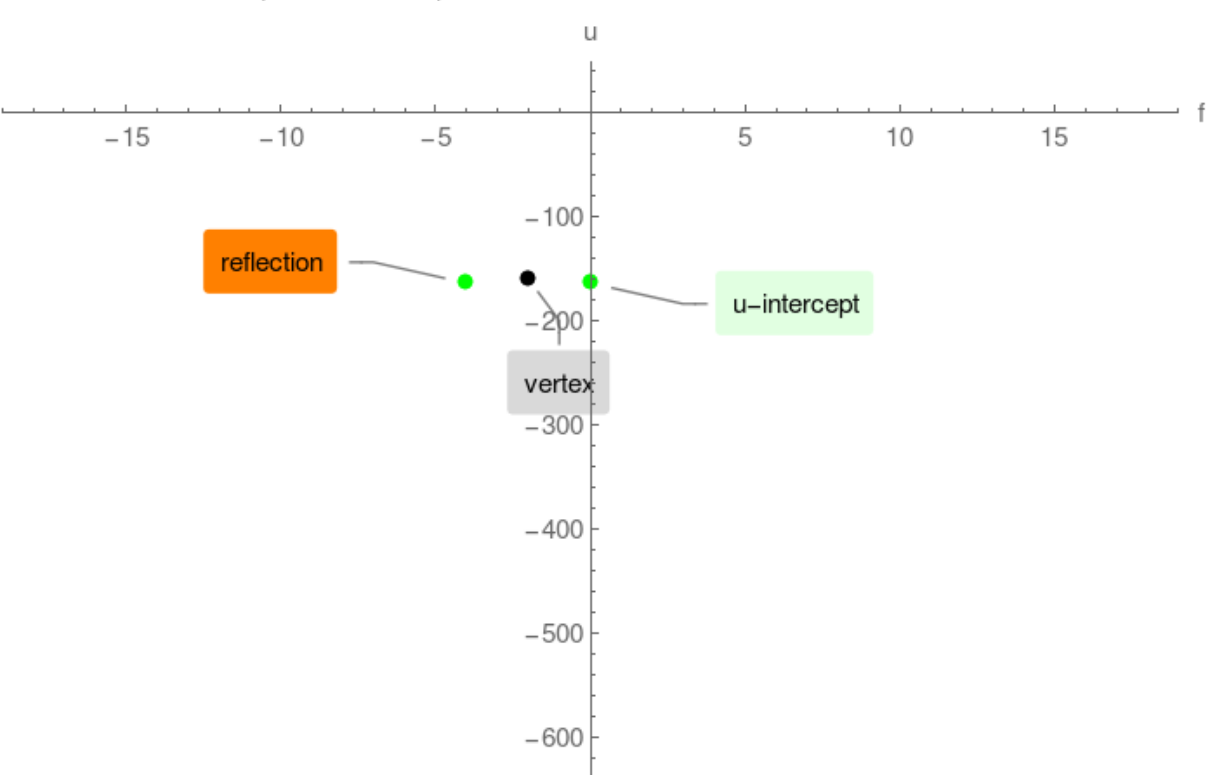## Step 2.
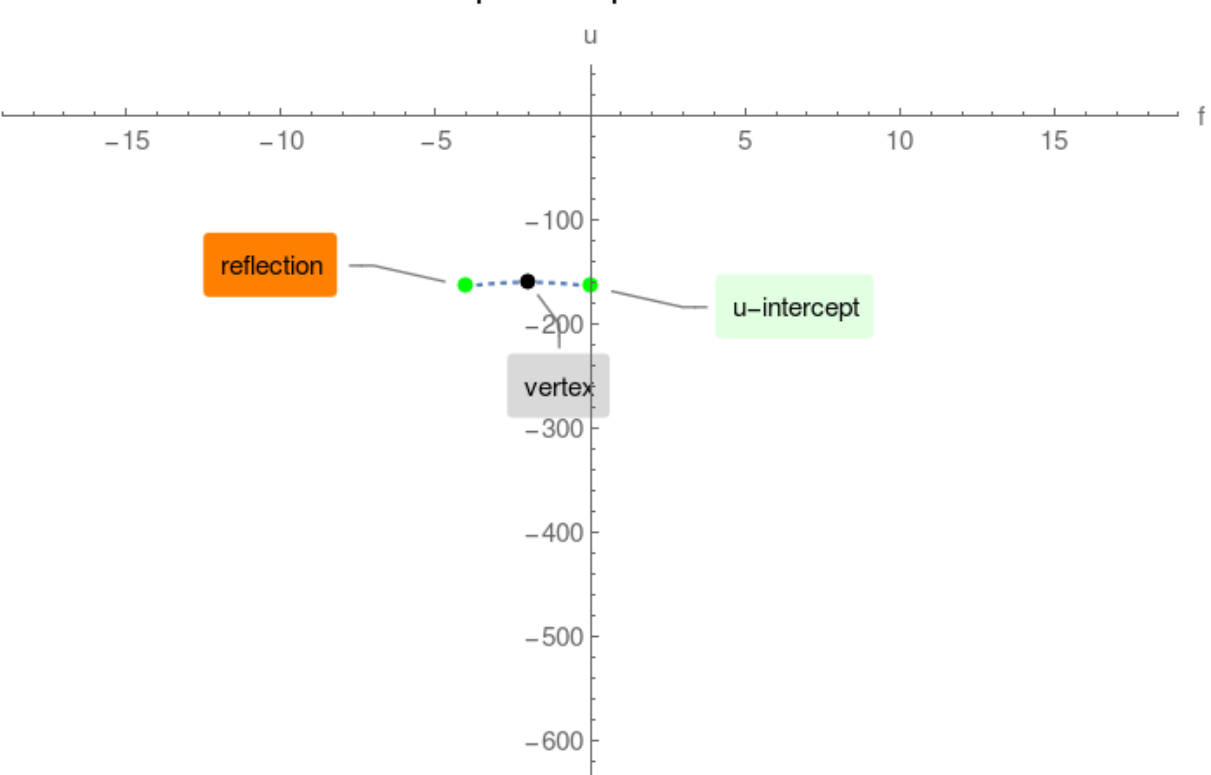Compute u-intercept and plot single point:
u-intercept = $(0, -164)$

Step 3.
Compute u-intercept reflected against vertex,
reflection = $(-4, -164)$

Step 4.
connect the above computed points:

Step 5.
Extend the parabola beyond the range of intercepts