

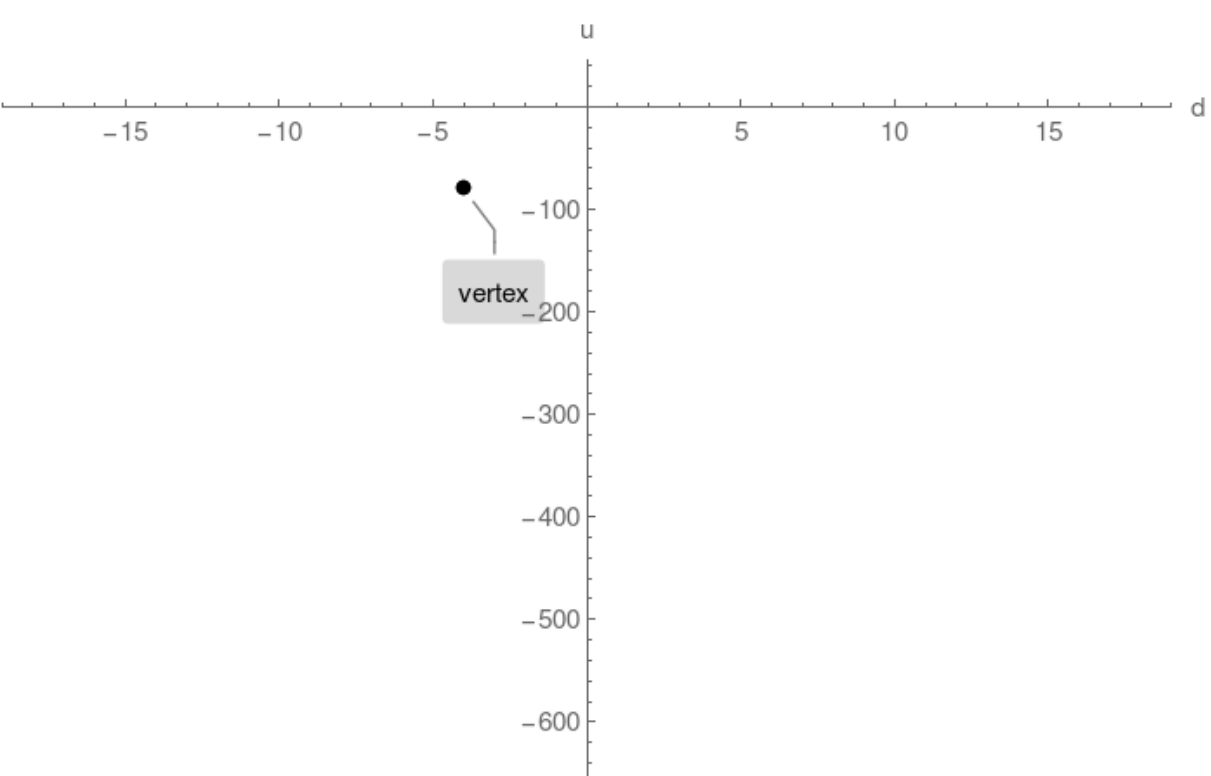
## Example 2. No horizontal intercepts found

Plot  $u(d) = -d^2 - 8d - 96$

### Step 1.

Compute vertex and plot single point:

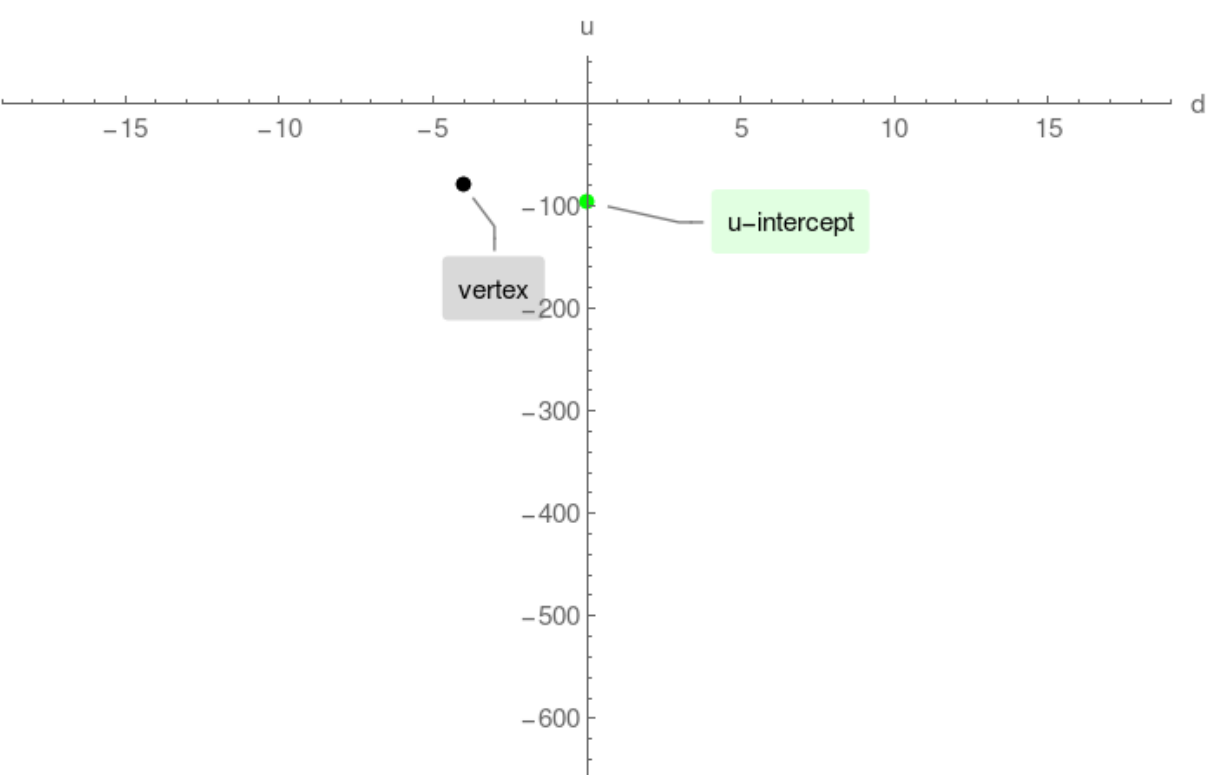
vertex =  $(-4, -80)$



### Step 2.

Compute u-intercept and plot single point:

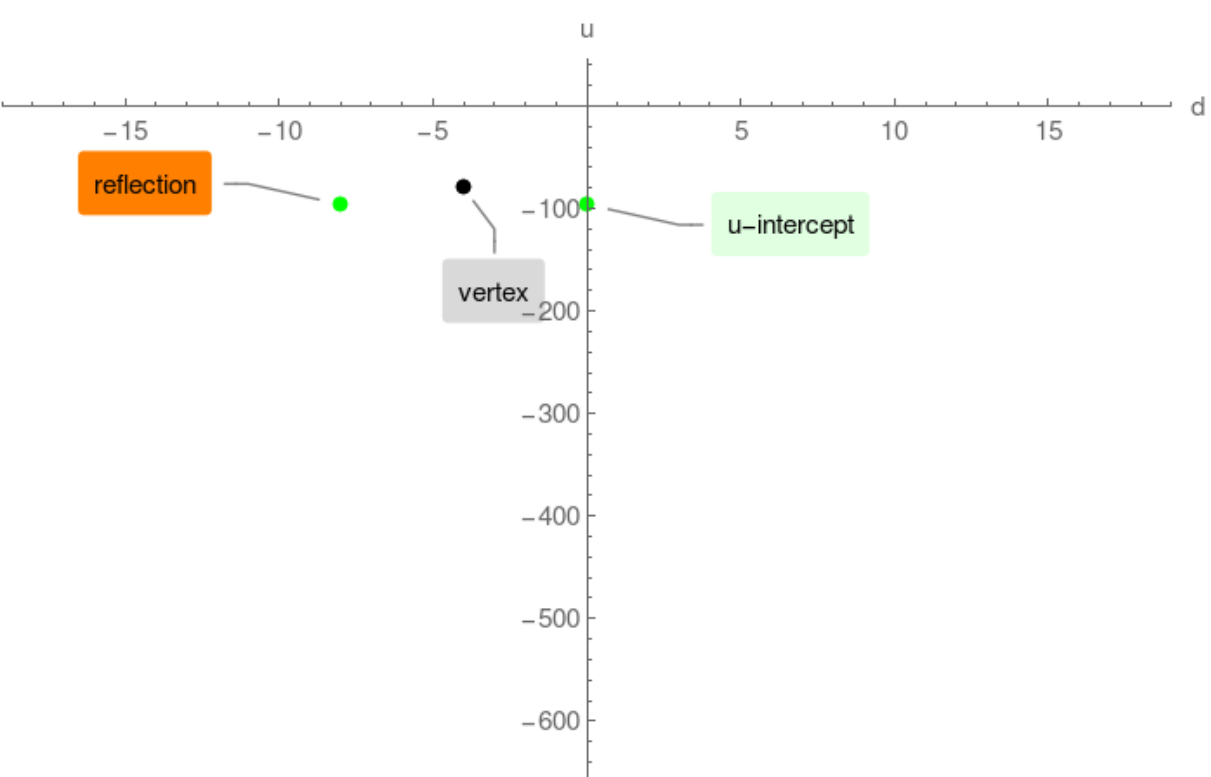
u-intercept =  $(0, -96)$



### Step 3.

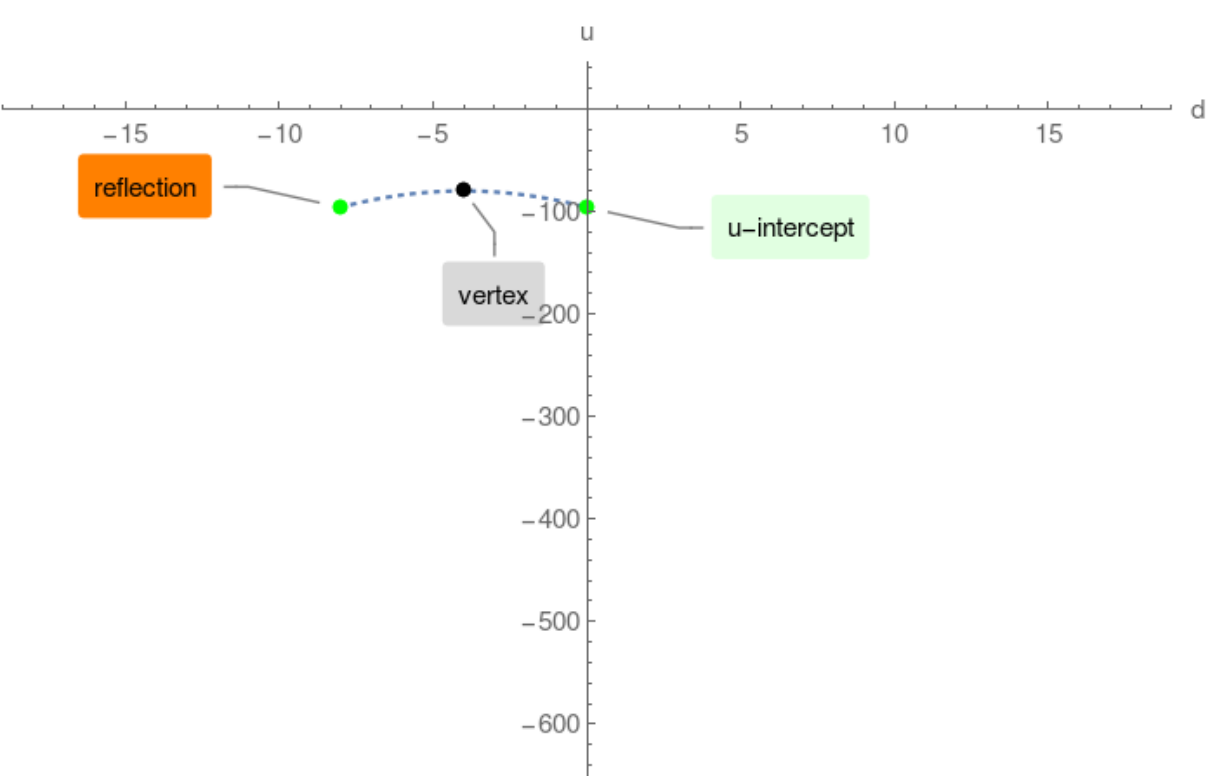
Compute u-intercept reflected against vertex,

reflection =  $(-8, -96)$



### Step 4.

connect the above computed points:



### Step 5.

Extend the parabola beyond the range of intercepts

