

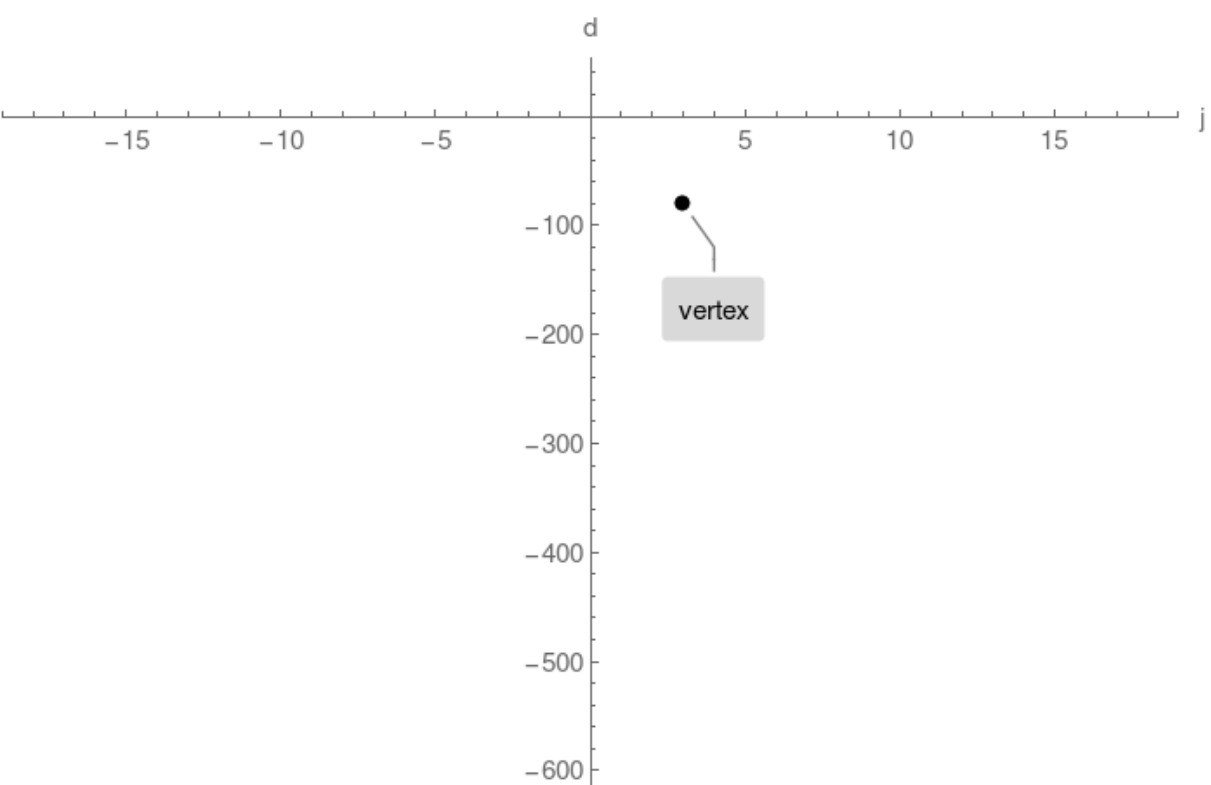
## Example 2. No horizontal intercepts found

Plot  $d(j) = -j^2 + 6j - 89$

### Step 1.

Compute vertex and plot single point:

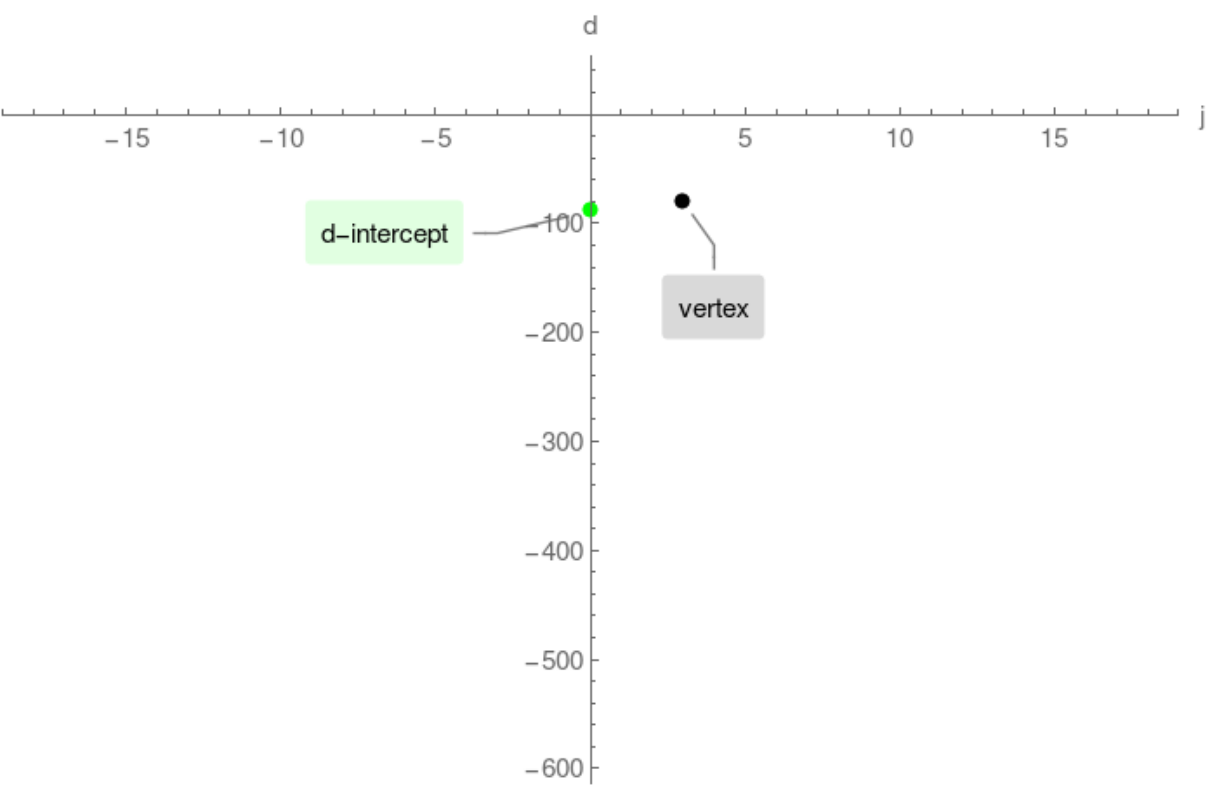
vertex = (3, -80)



### Step 2.

Compute d-intercept and plot single point:

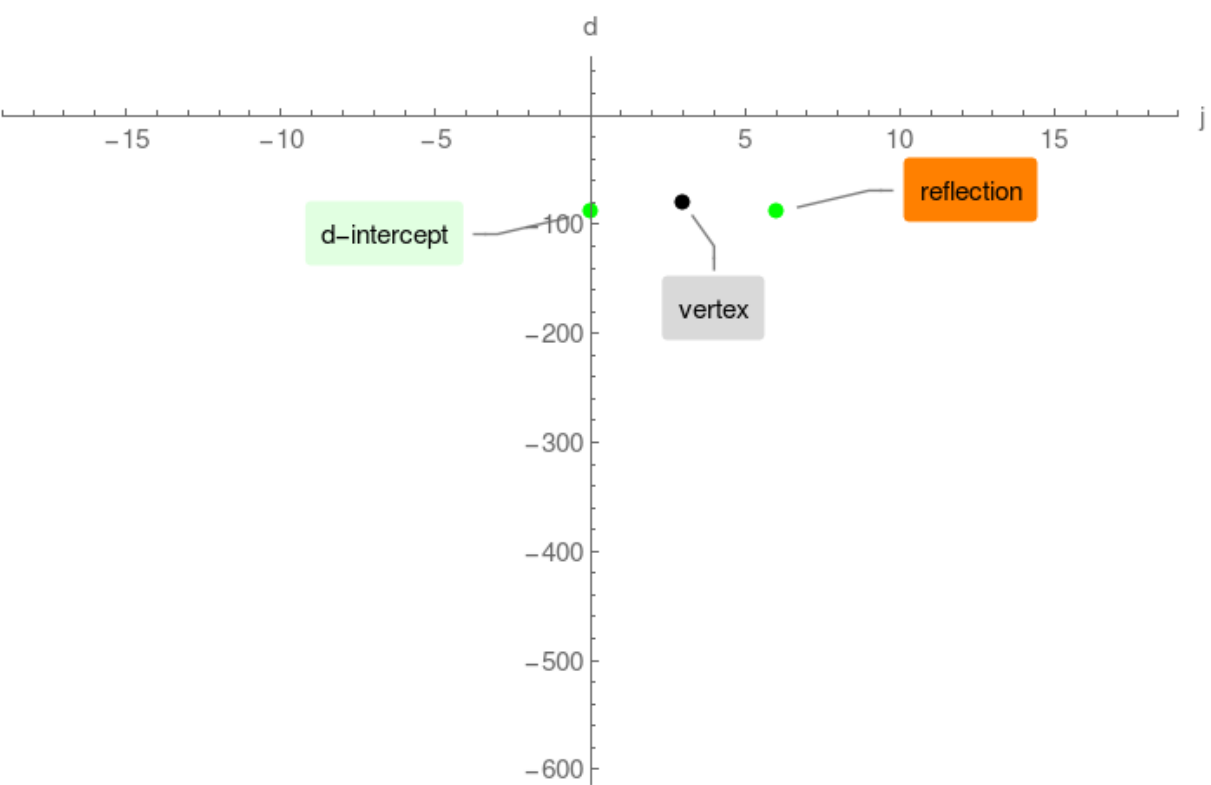
d-intercept = (0, -89)



### Step 3.

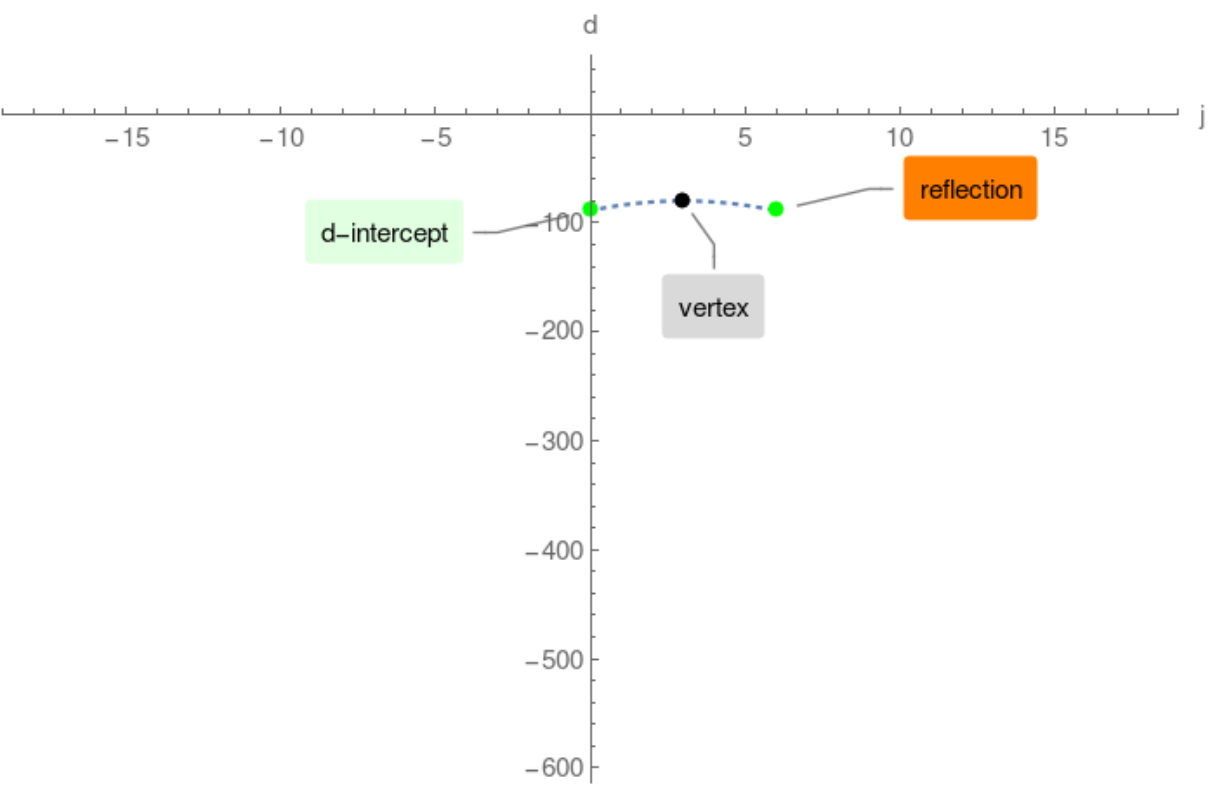
Compute d-intercept reflected against vertex,

reflection = (6, -89)



### Step 4.

connect the above computed points:



### Step 5.

Extend the parabola beyond the range of intercepts

