

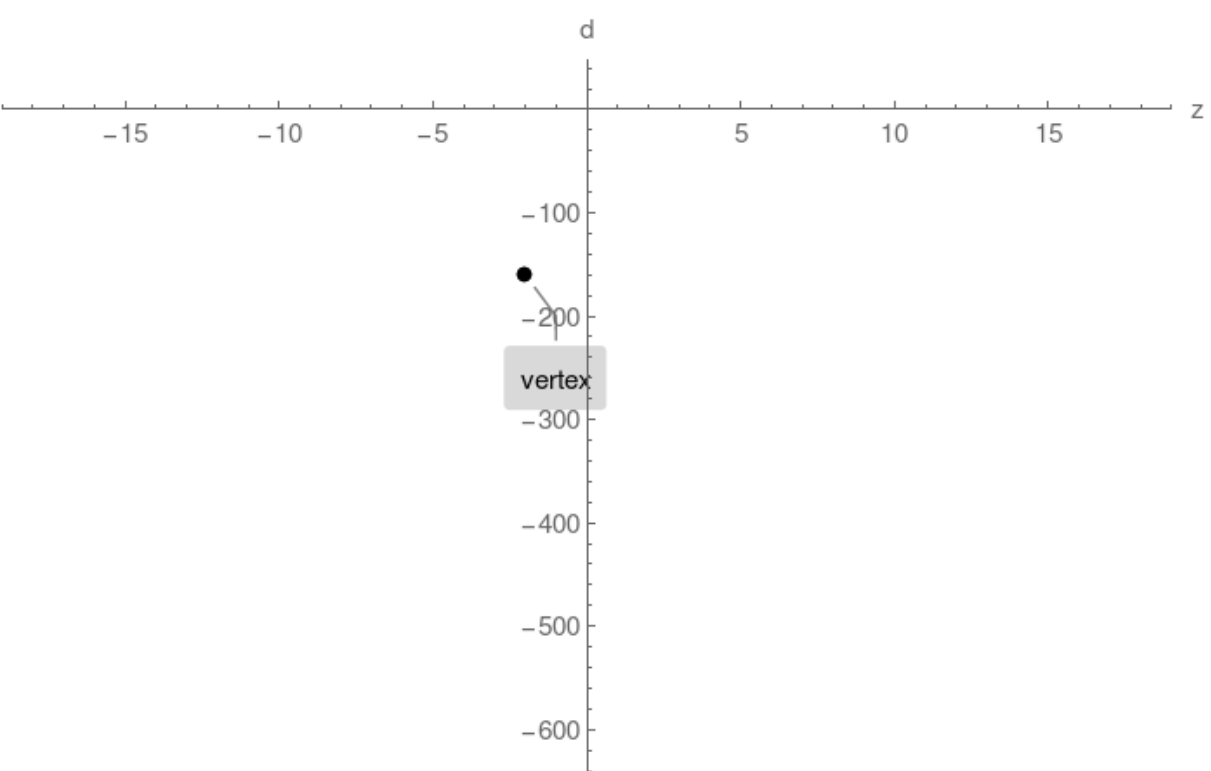
## Example 2. No horizontal intercepts found

Plot  $d(z) = -z^2 - 4z - 164$

### Step 1.

Compute vertex and plot single point:

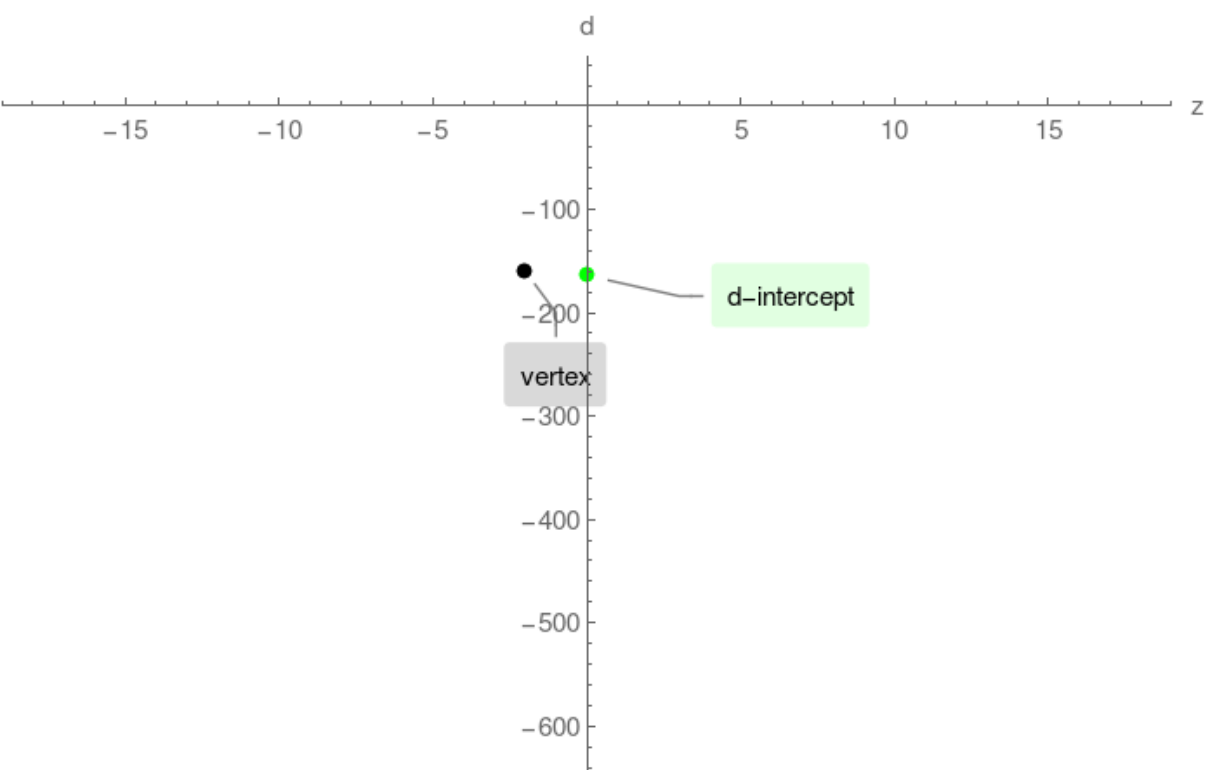
vertex =  $(-2, -160)$



### Step 2.

Compute d-intercept and plot single point:

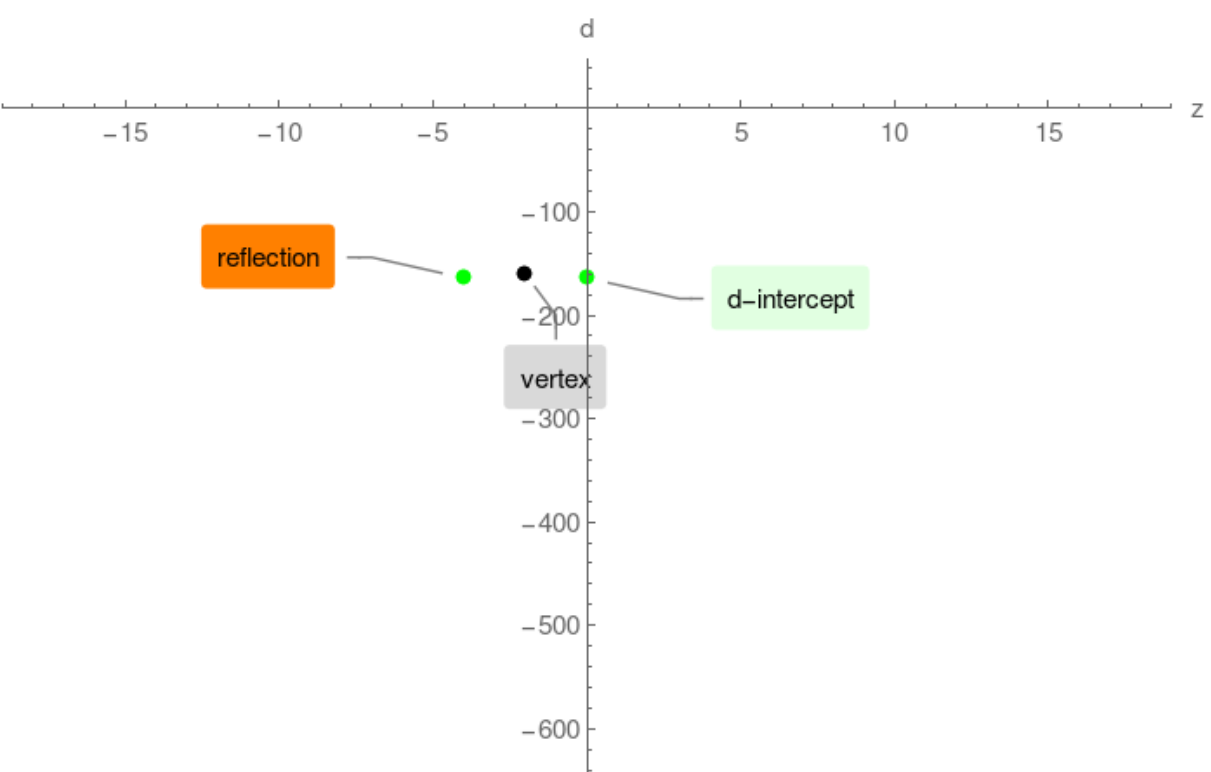
d-intercept =  $(0, -164)$



### Step 3.

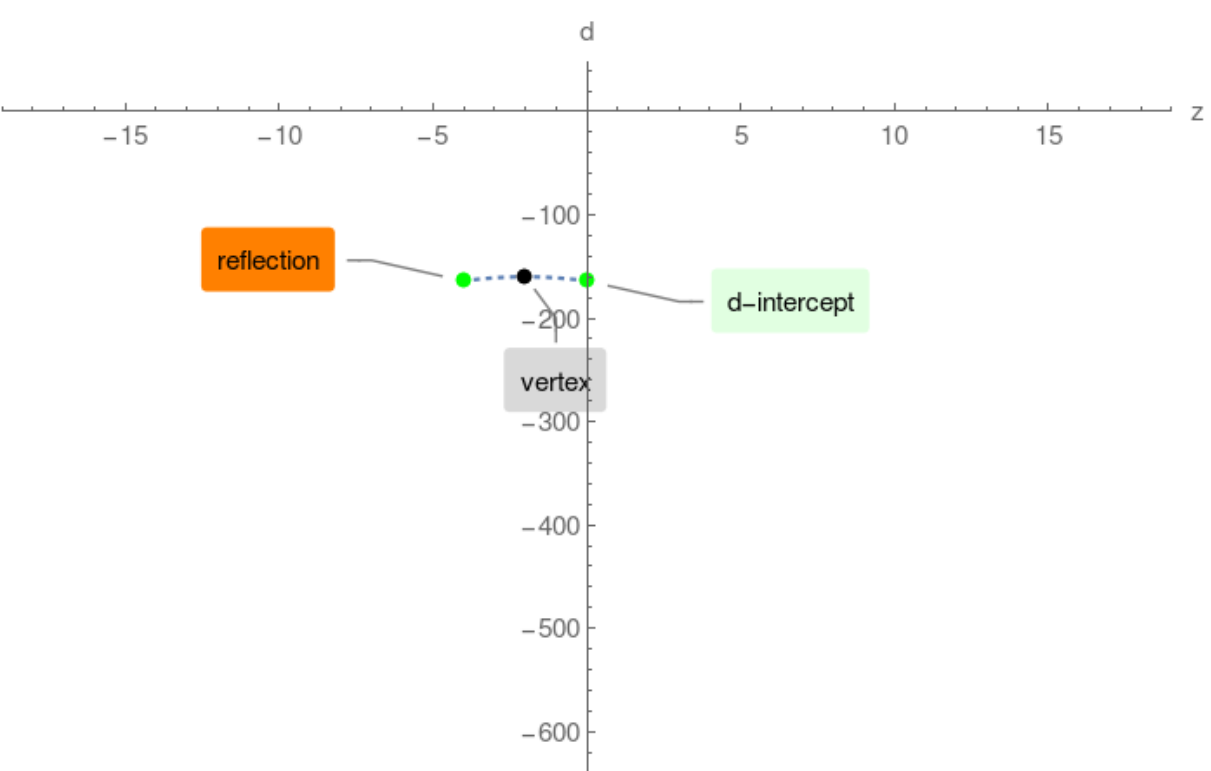
Compute d-intercept reflected against vertex,

reflection =  $(-4, -164)$



### Step 4.

connect the above computed points:



### Step 5.

Extend the parabola beyond the range of intercepts

