

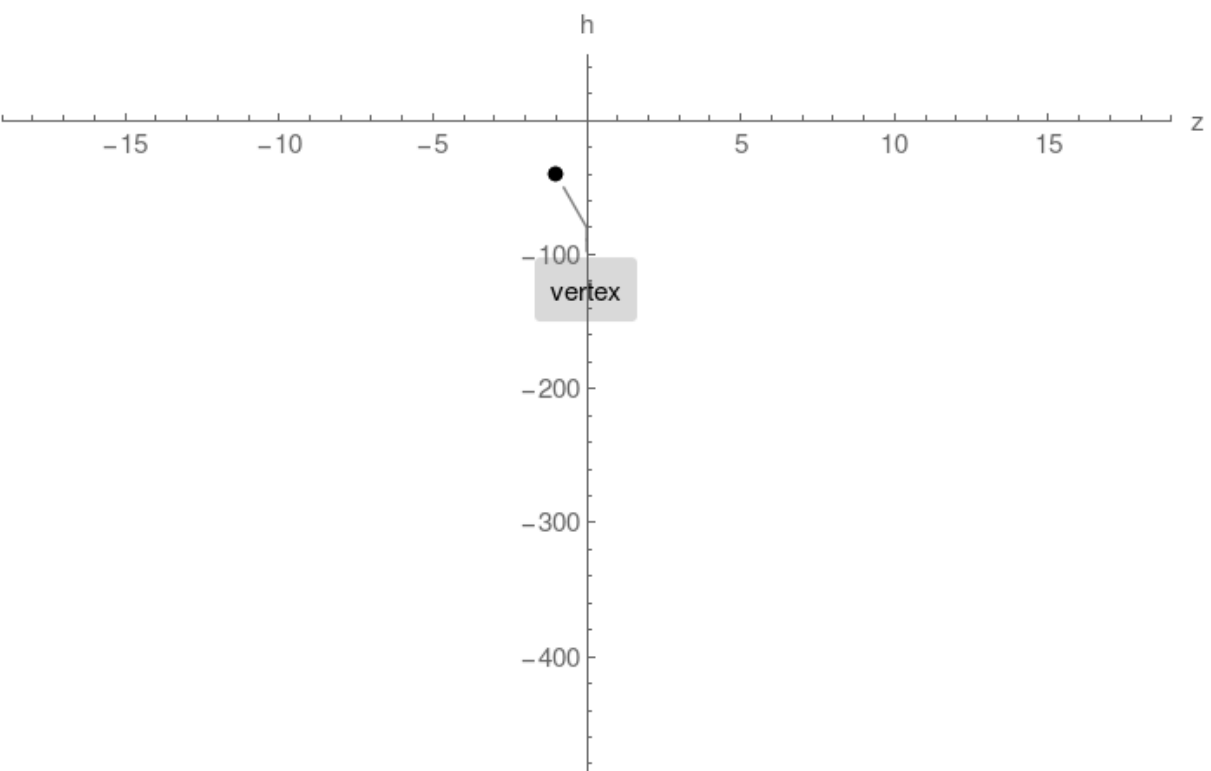
## Example 2. No horizontal intercepts found

Plot  $h(z) = -z^2 - 2z - 41$

### Step 1.

Compute vertex and plot single point:

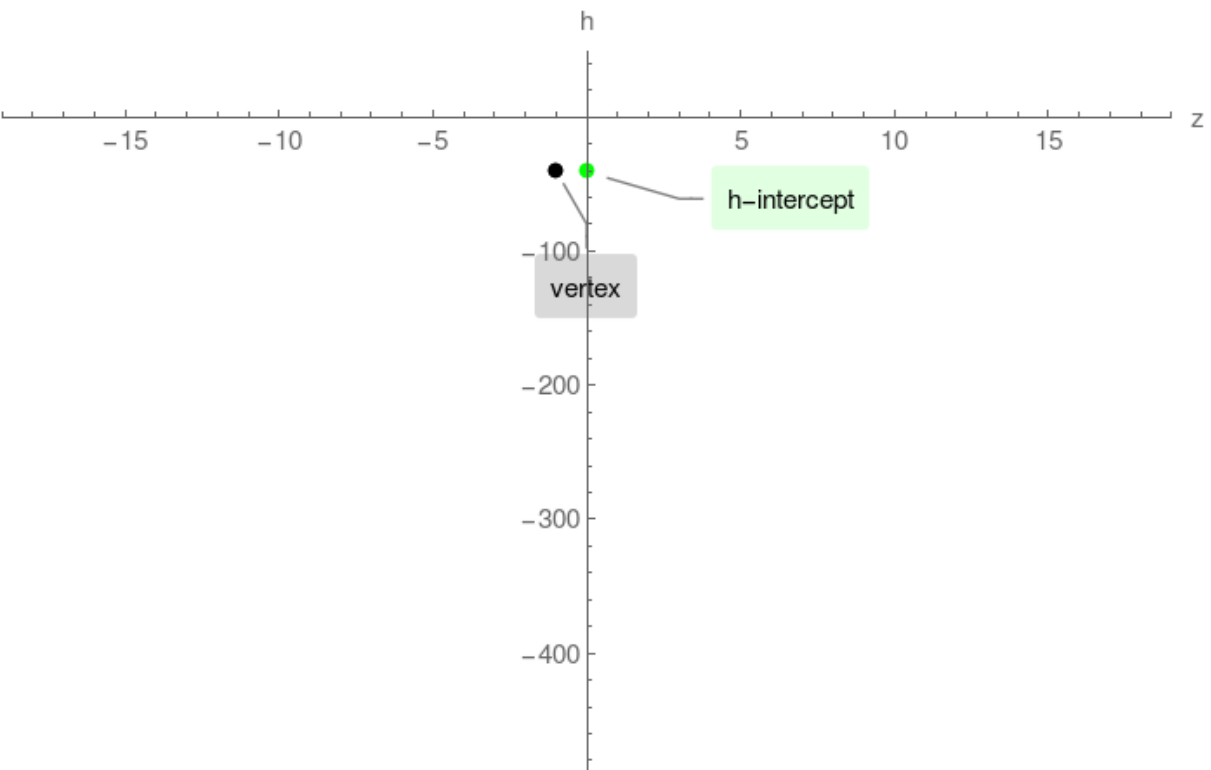
vertex =  $(-1, -40)$



### Step 2.

Compute h-intercept and plot single point:

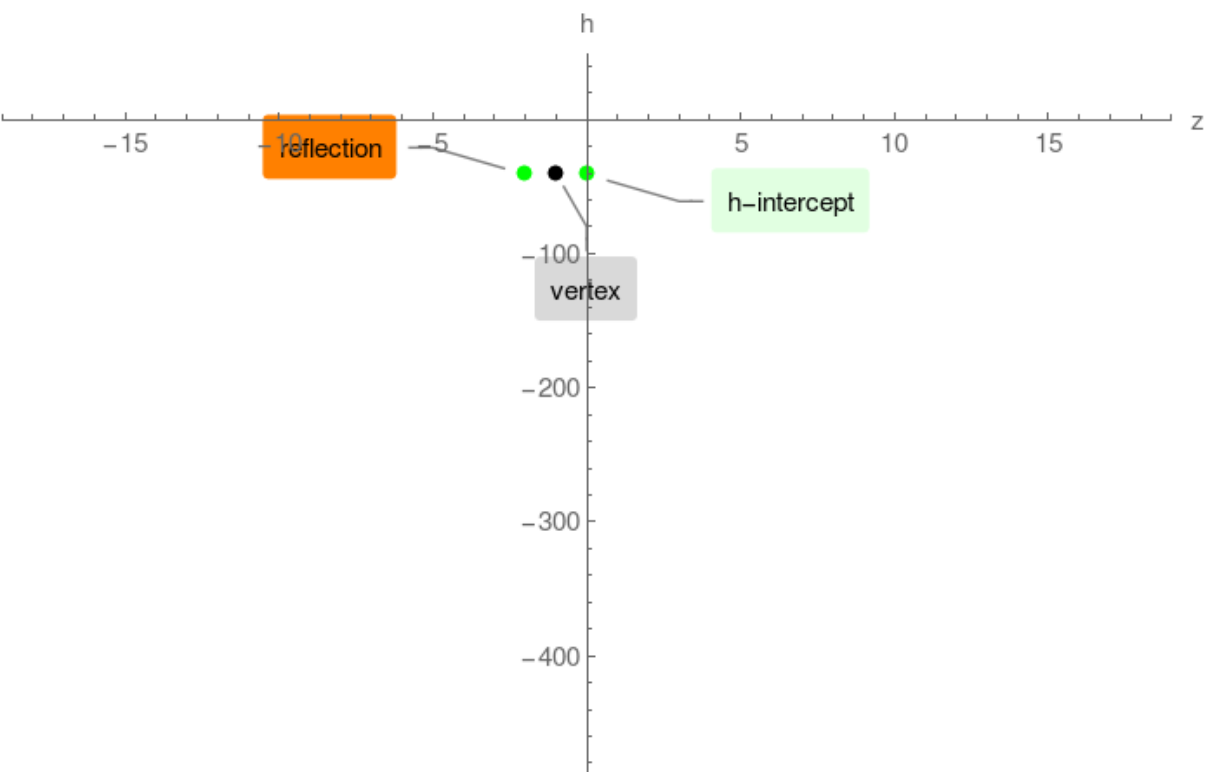
h-intercept =  $(0, -41)$



### Step 3.

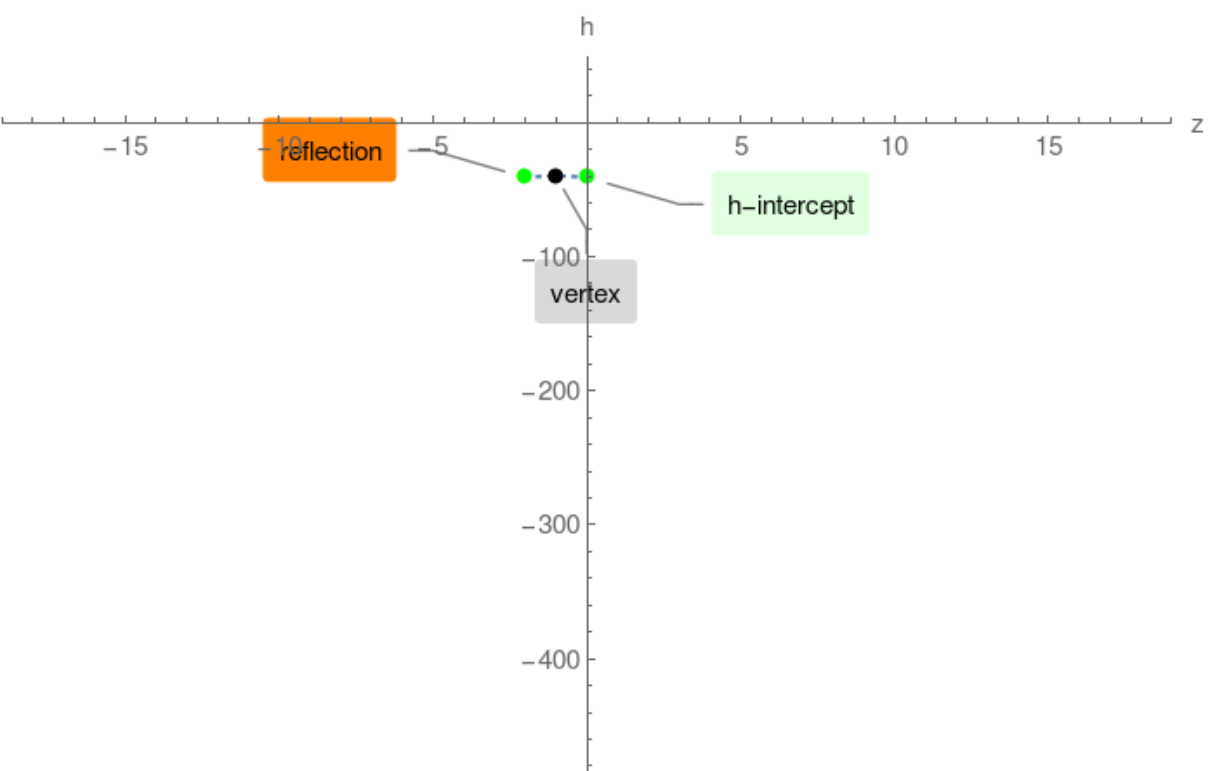
Compute h-intercept reflected against vertex,

reflection =  $(-2, -41)$



### Step 4.

connect the above computed points:



### Step 5.

Extend the parabola beyond the range of intercepts

