

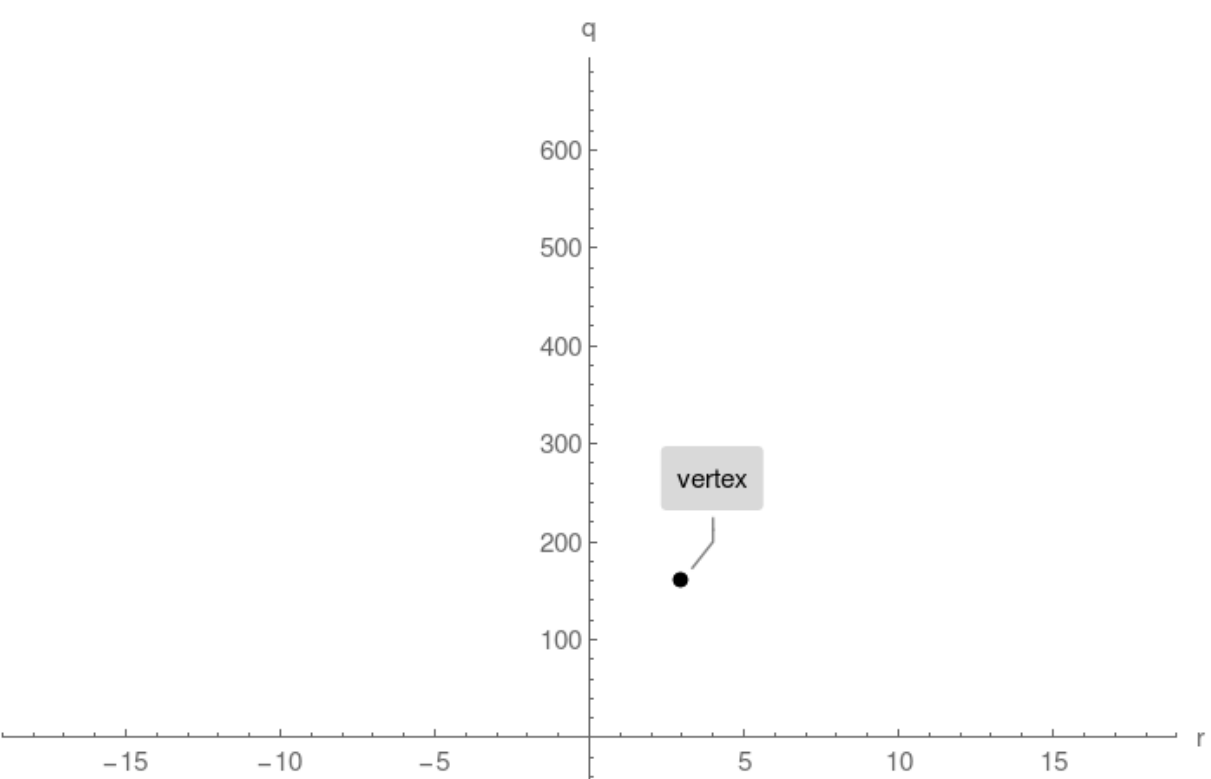
## Example 2. No horizontal intercepts found

Plot  $q(r) = r^2 - 6r + 169$

### Step 1.

Compute vertex and plot single point:

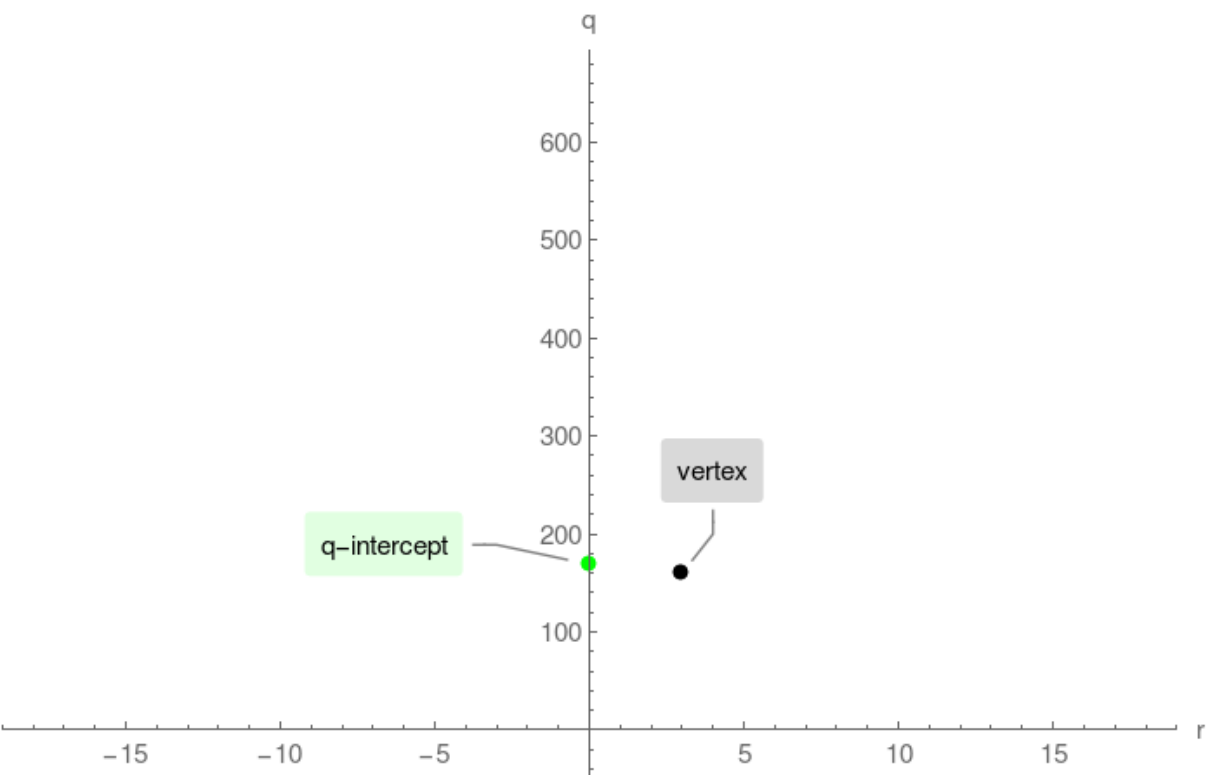
vertex = (3, 160)



### Step 2.

Compute q-intercept and plot single point:

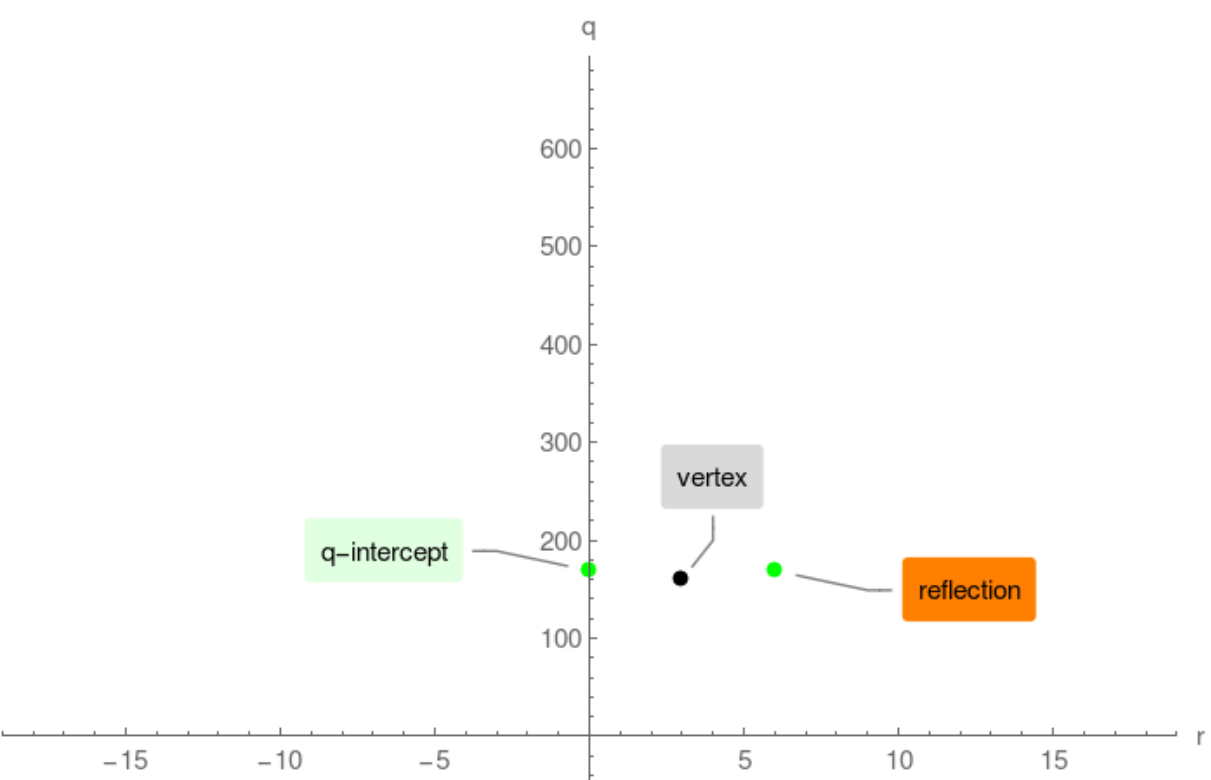
q-intercept = (0, 169)



### Step 3.

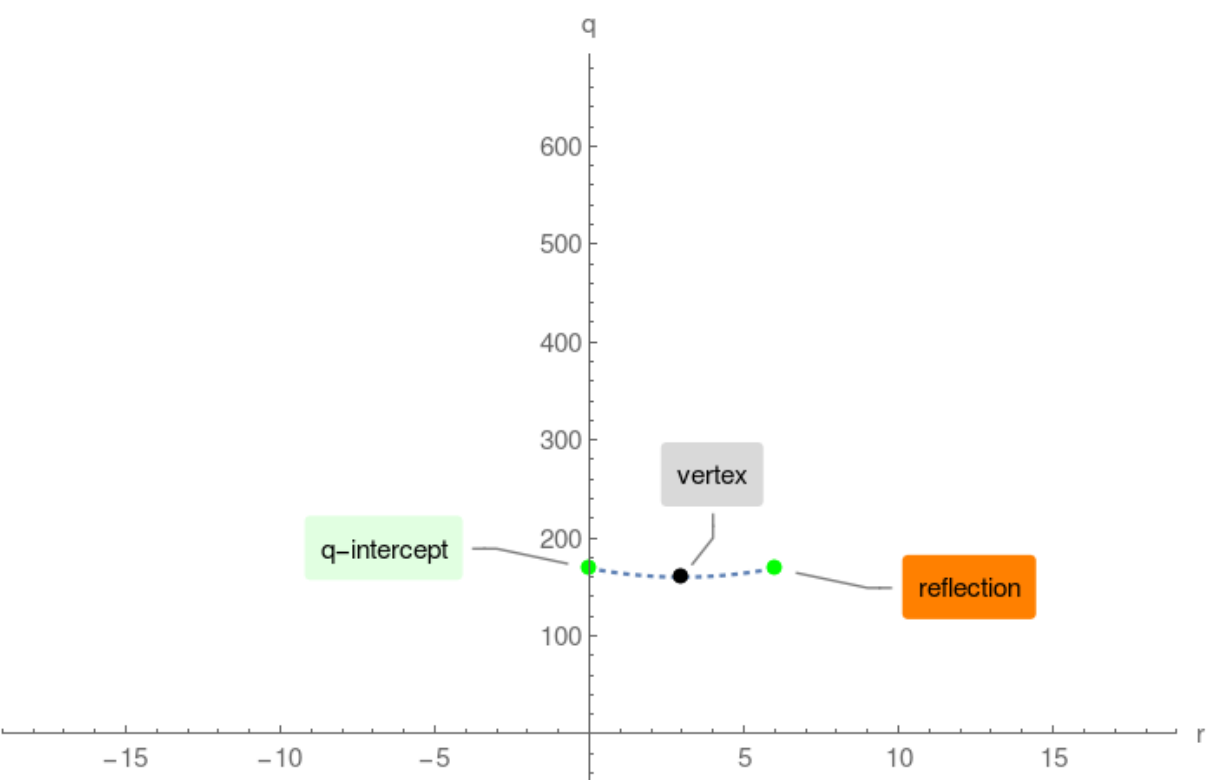
Compute q-intercept reflected against vertex,

reflection = (6, 169)



### Step 4.

connect the above computed points:



### Step 5.

Extend the parabola beyond the range of intercepts

