

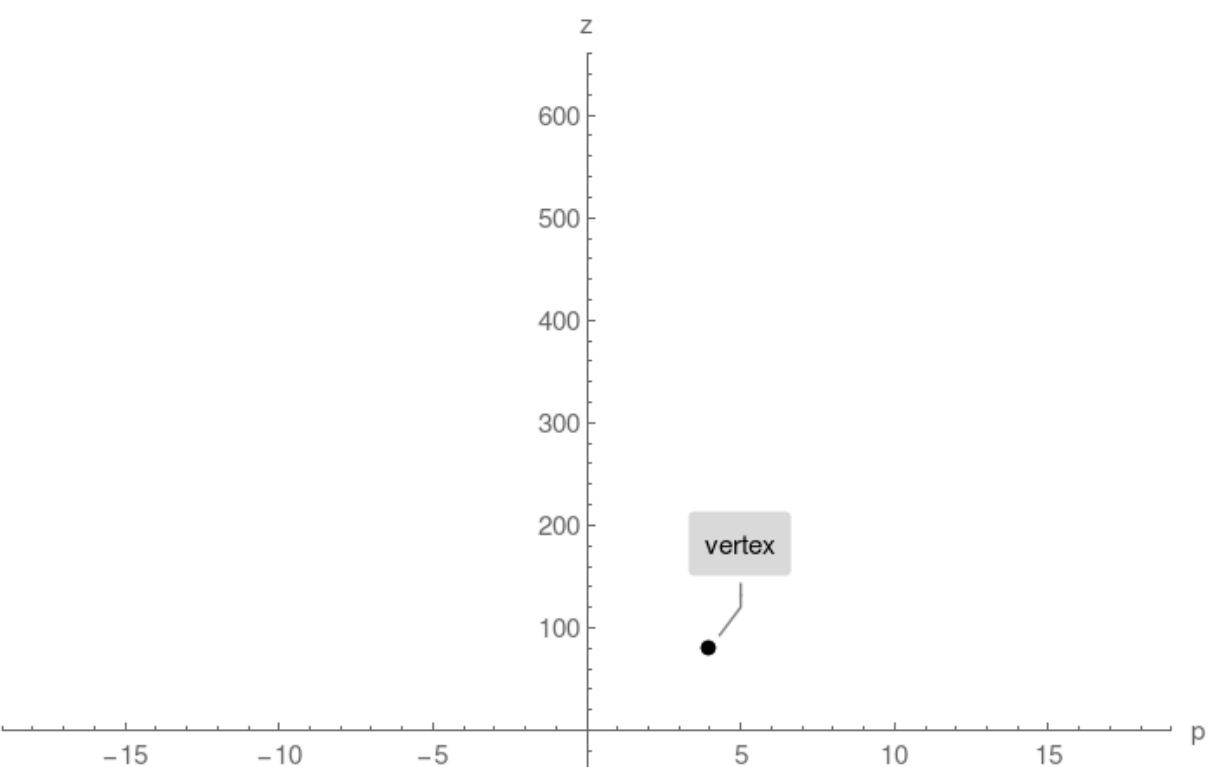
## Example 2. No horizontal intercepts found

Plot  $z(p) = p^2 - 8p + 96$

### Step 1.

Compute vertex and plot single point:

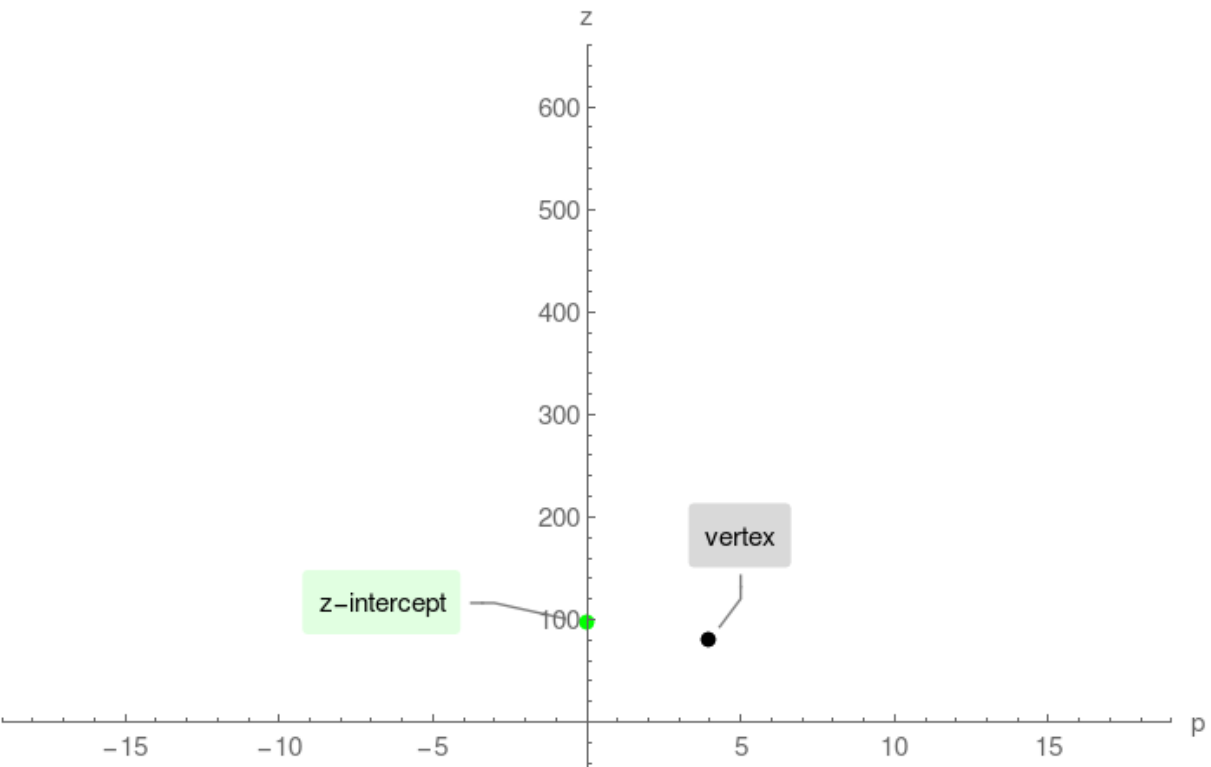
vertex = (4, 80)



### Step 2.

Compute z-intercept and plot single point:

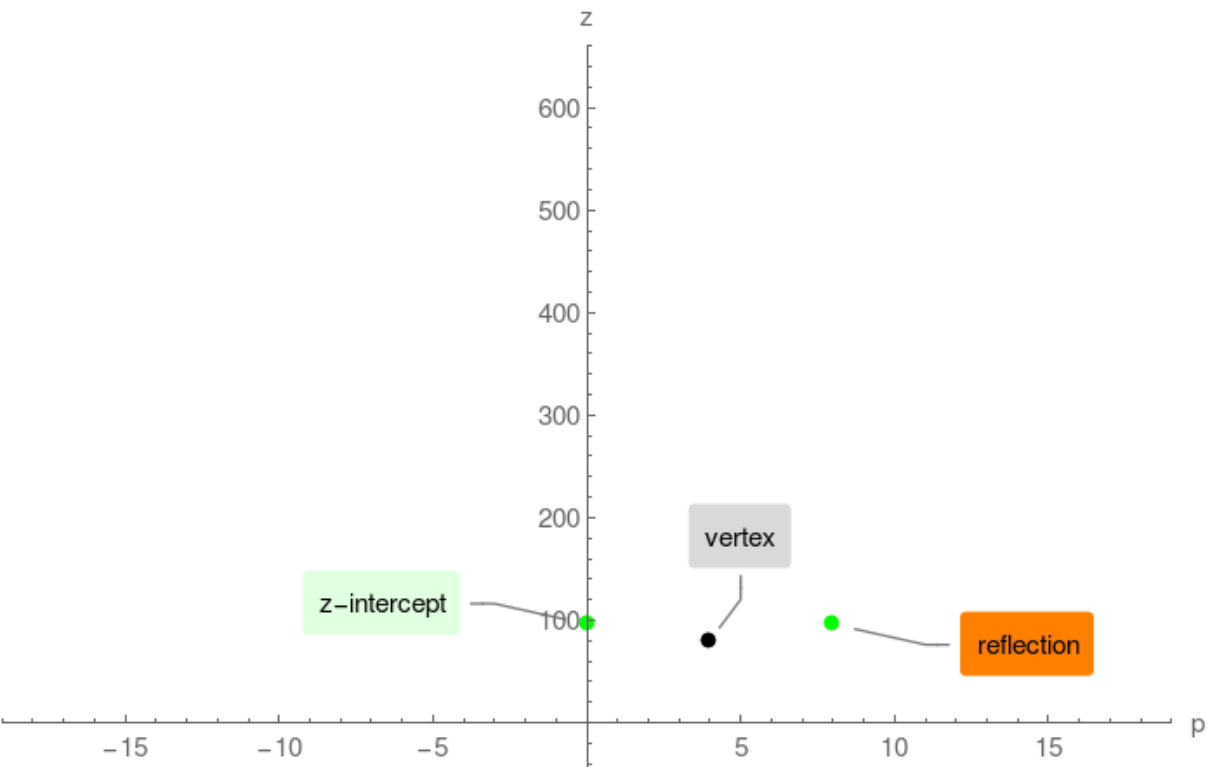
z-intercept = (0, 96)



### Step 3.

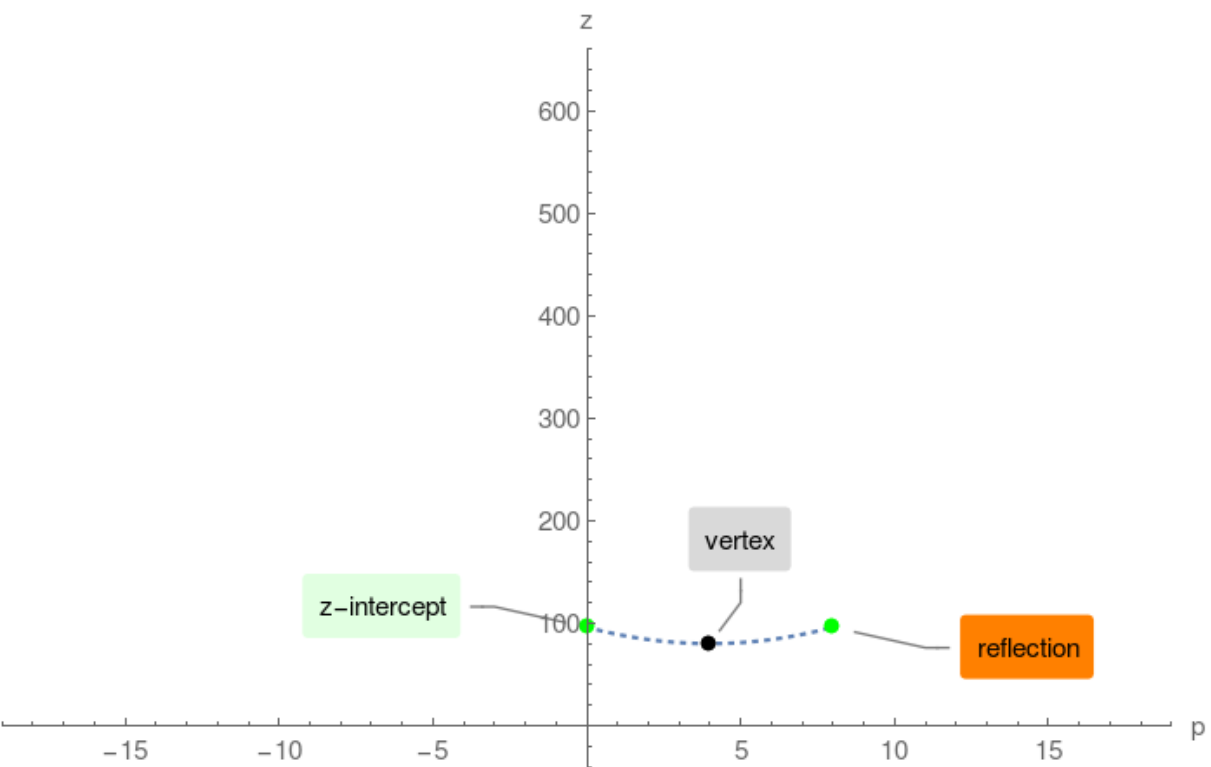
Compute z-intercept reflected against vertex,

reflection = (8, 96)



### Step 4.

connect the above computed points:



### Step 5.

Extend the parabola beyond the range of intercepts

