

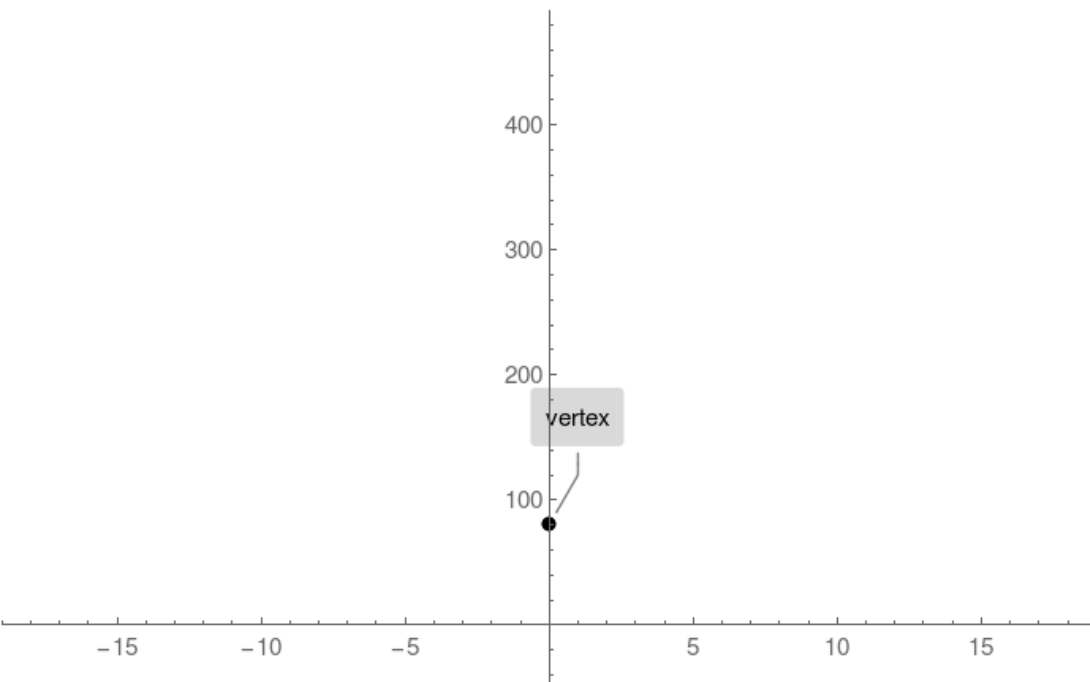
Example 3. Vertex equal to vertical intercept

Plot $n(g) = g^2 + 80$

Step 1.

Compute vertex and plot single point:

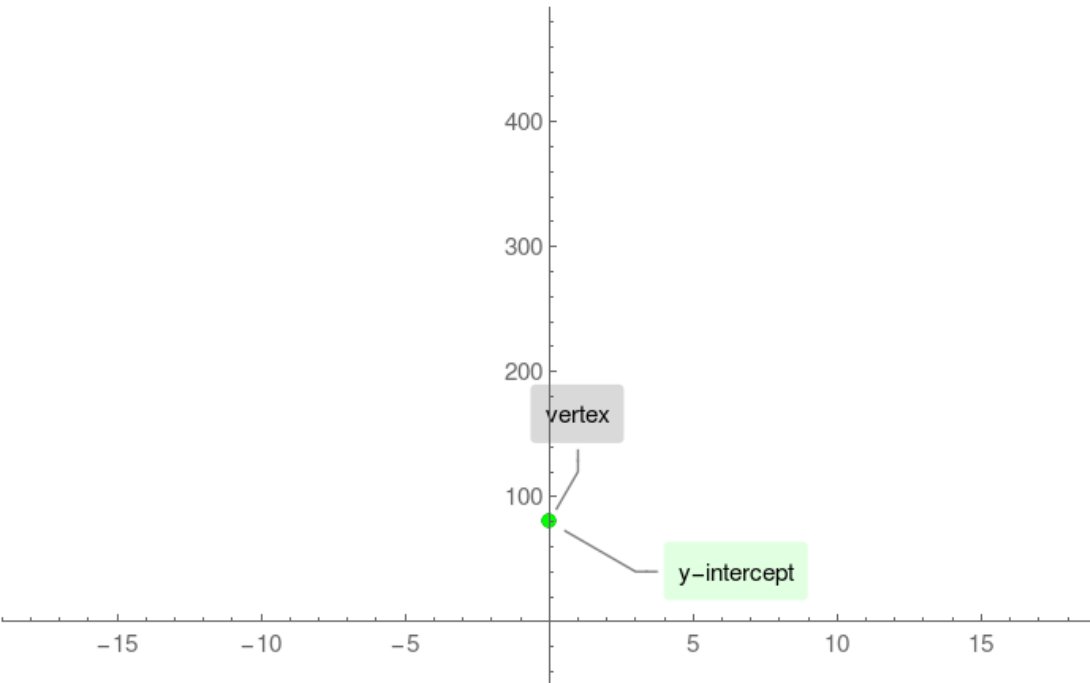
vertex = (0, 80)



Step 2.

Compute n-intercept and plot single point:

n-intercept = (0, 80)

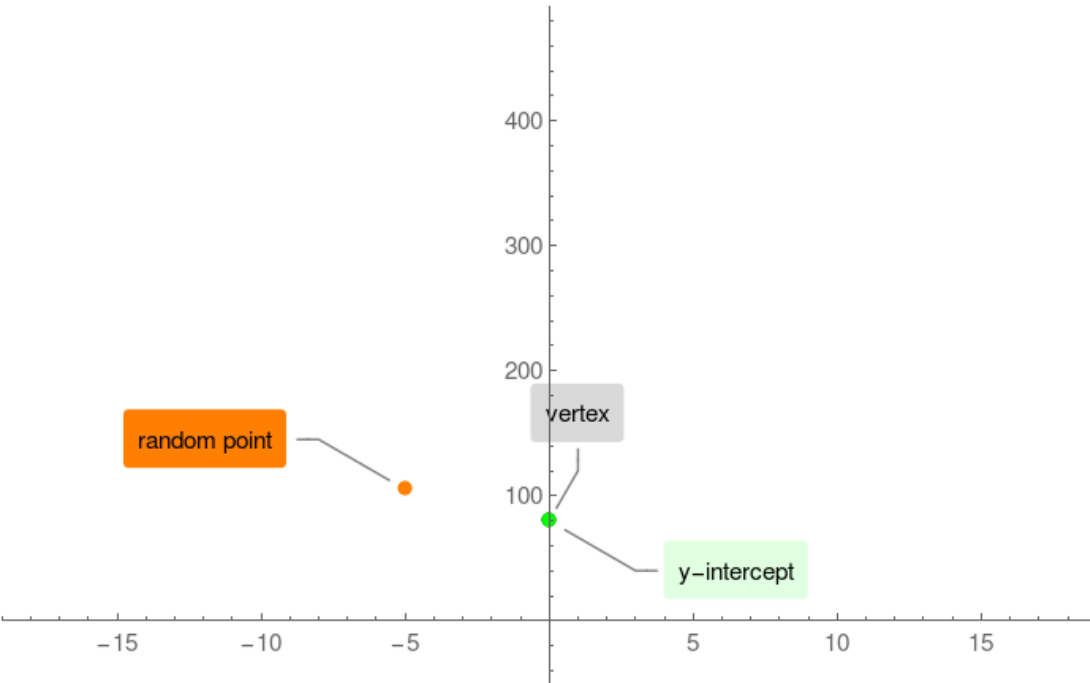


Step 3.

There are no g-intercepts!

Instead compute an arbitrary point on any side of vertex:

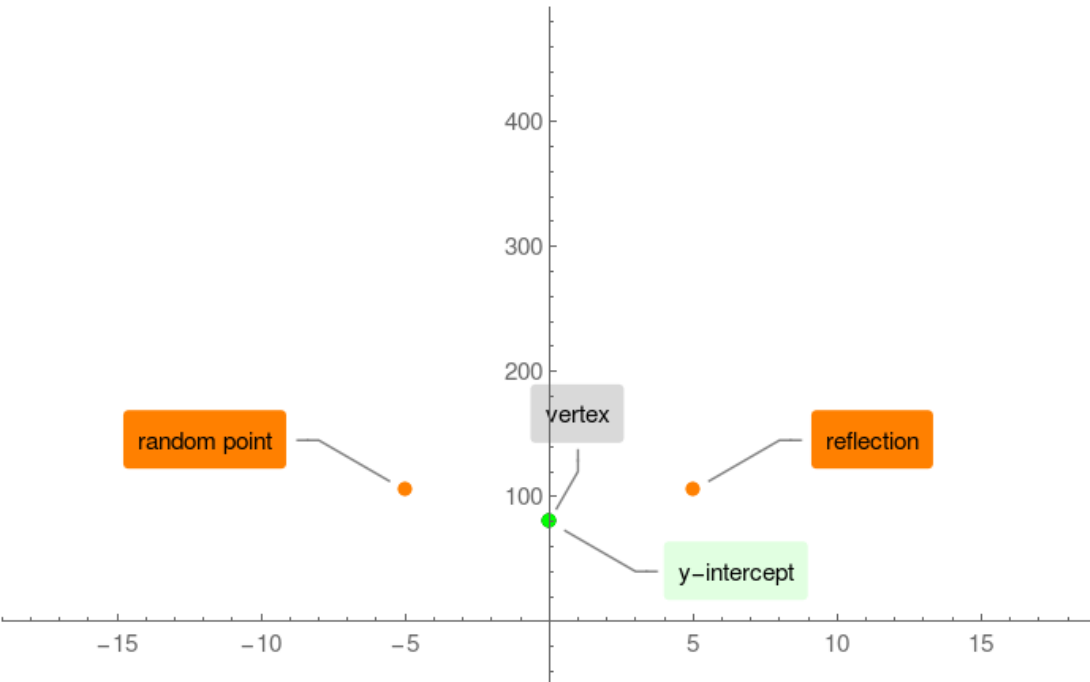
Random point = (-5, 105)



Step 4.

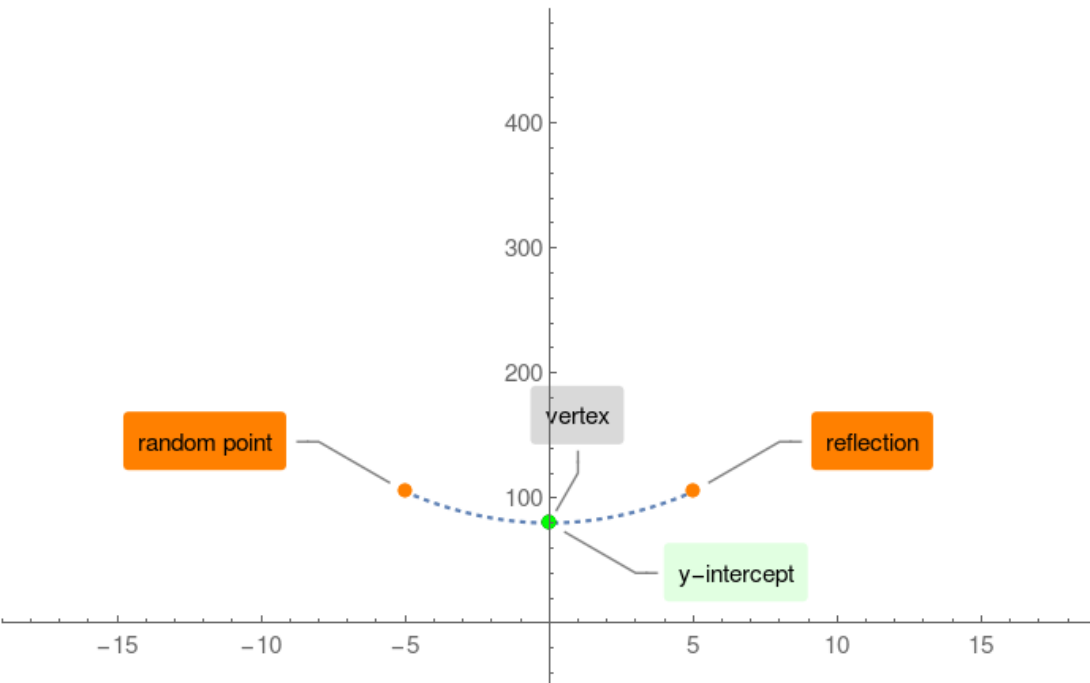
Reflect the point against the vertex's vertical axes:

Reflection = (5, 105)



Step 5.

connect the above computed points:



Step 6.

Extend the parabola beyond the range of intercepts

