

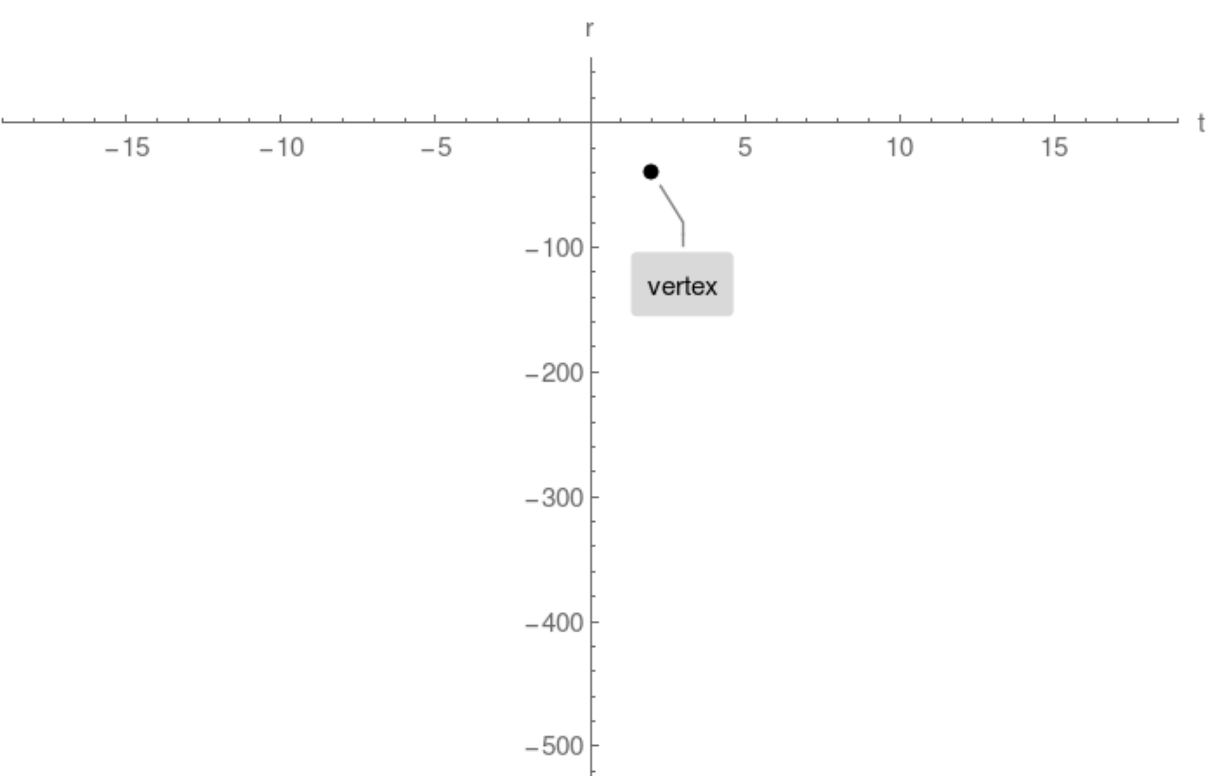
Example 2. No horizontal intercepts found

Plot $r(t) = -t^2 + 4t - 44$

Step 1.

Compute vertex and plot single point:

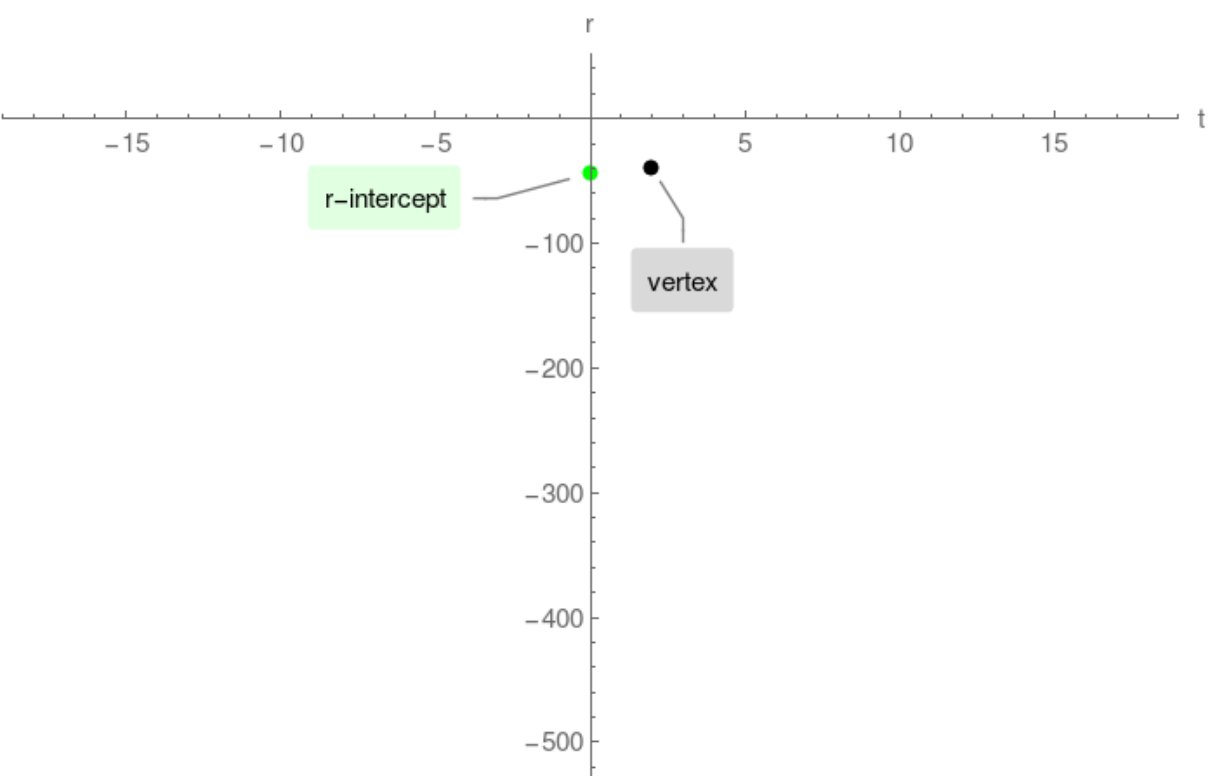
vertex = $(2, -40)$



Step 2.

Compute r-intercept and plot single point:

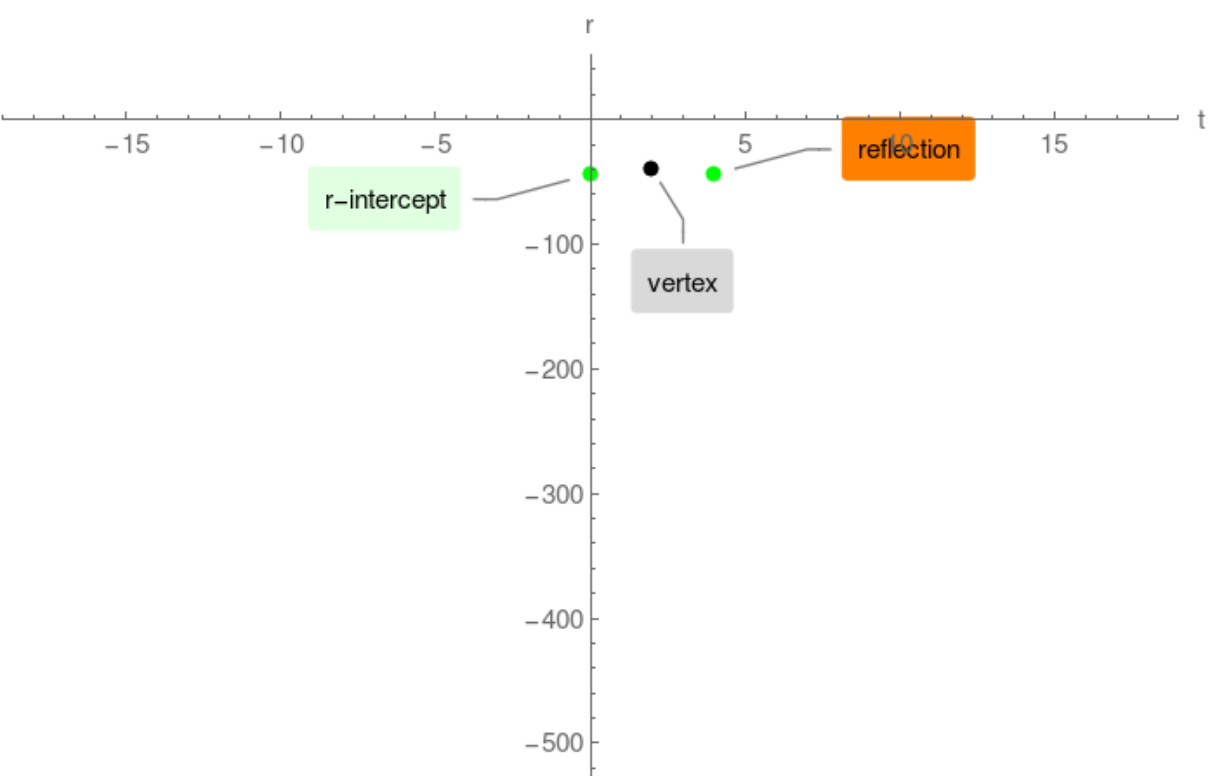
r-intercept = $(0, -44)$



Step 3.

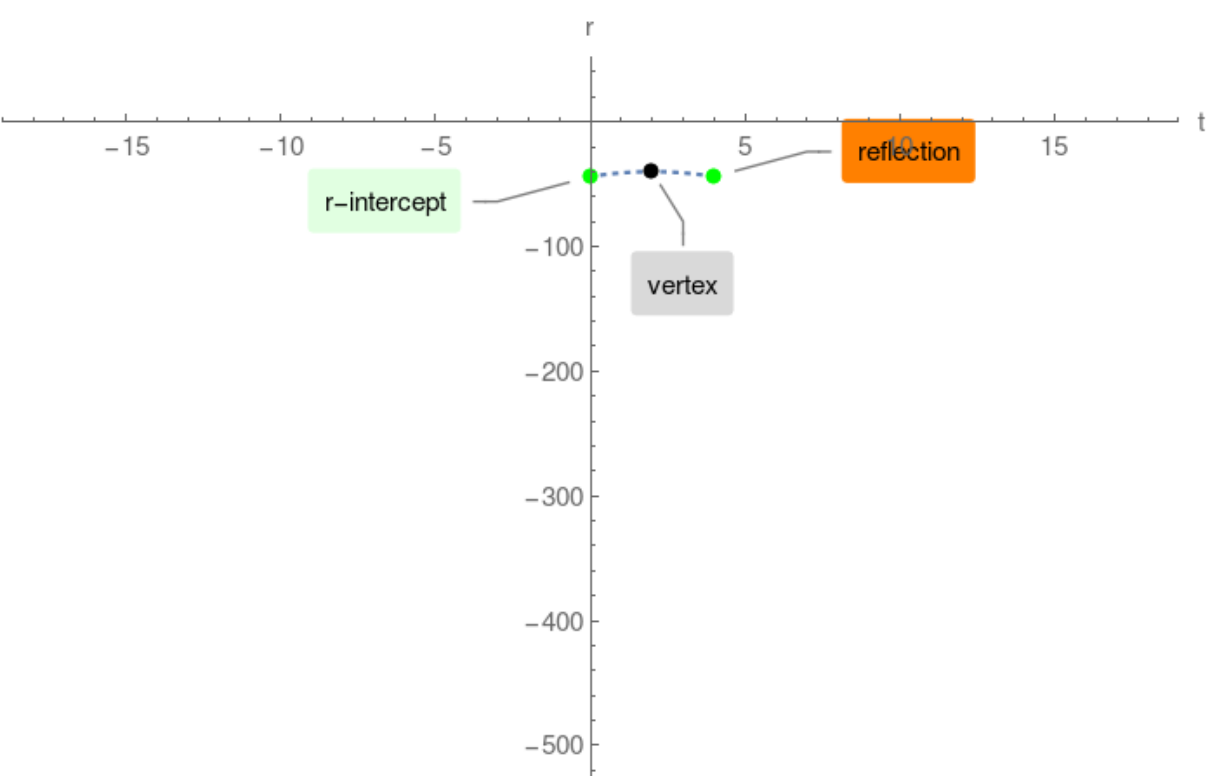
Compute r-intercept reflected against vertex,

reflection = $(4, -44)$



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts

