

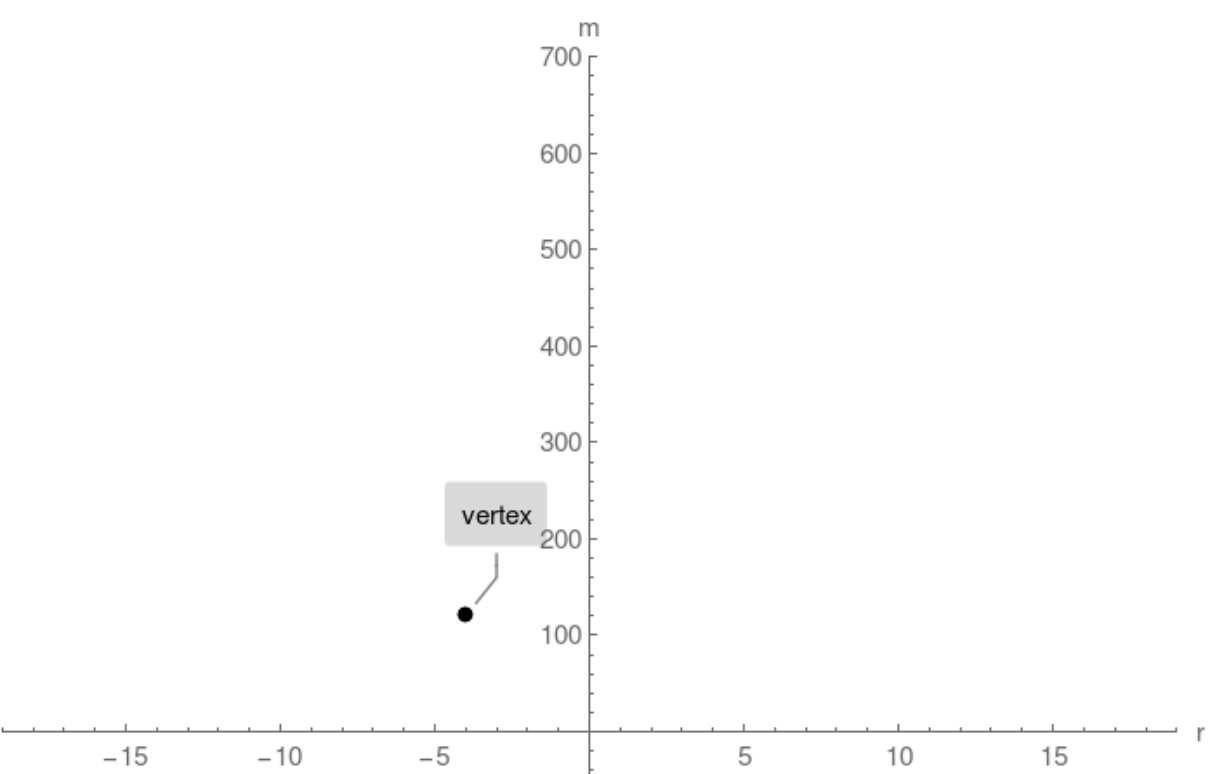
Example 2. No horizontal intercepts found

Plot $m(r) = r^2 + 8r + 136$

Step 1.

Compute vertex and plot single point:

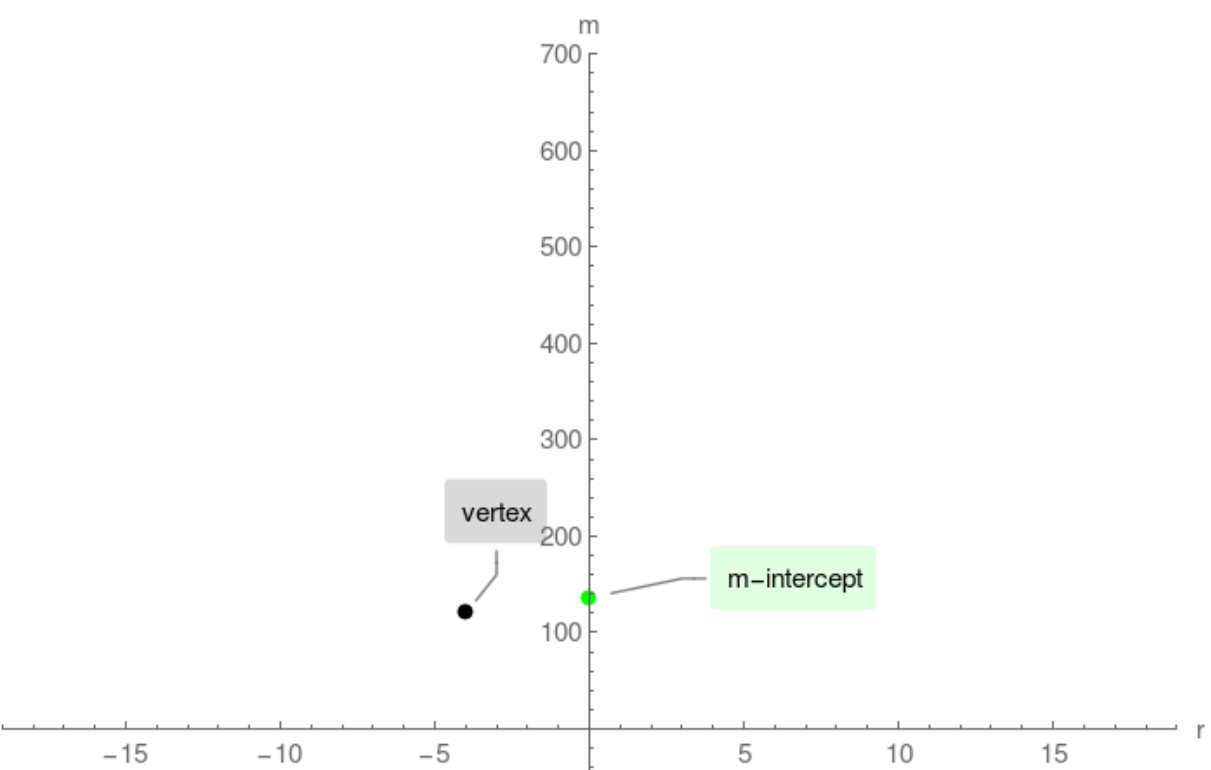
vertex = $(-4, 120)$



Step 2.

Compute m-intercept and plot single point:

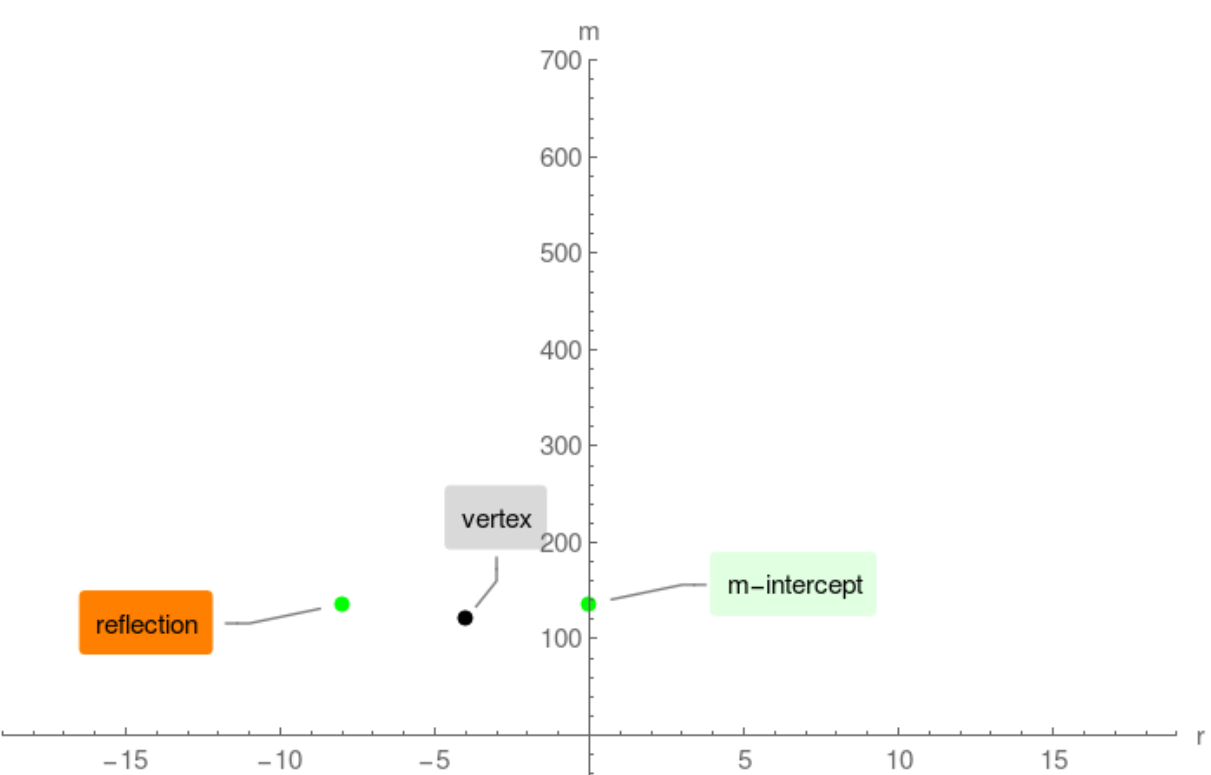
m-intercept = $(0, 136)$



Step 3.

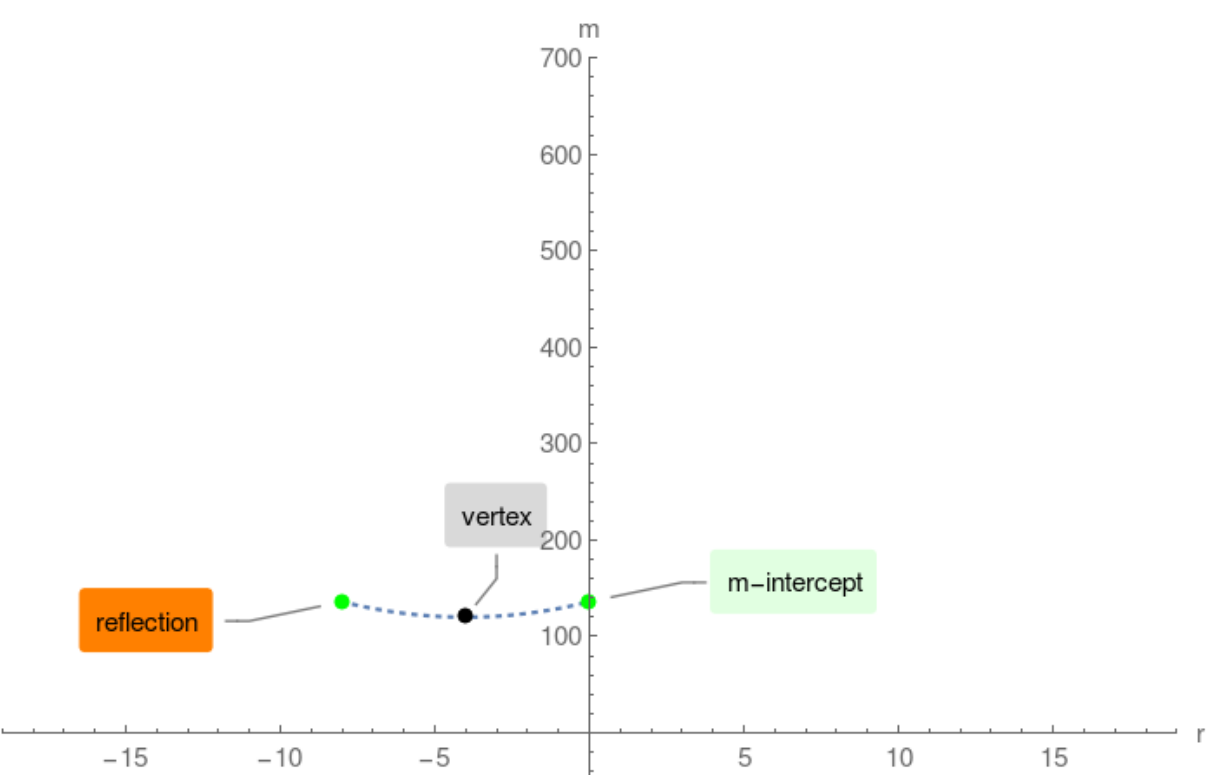
Compute m-intercept reflected against vertex,

reflection = $(-8, 136)$



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts

