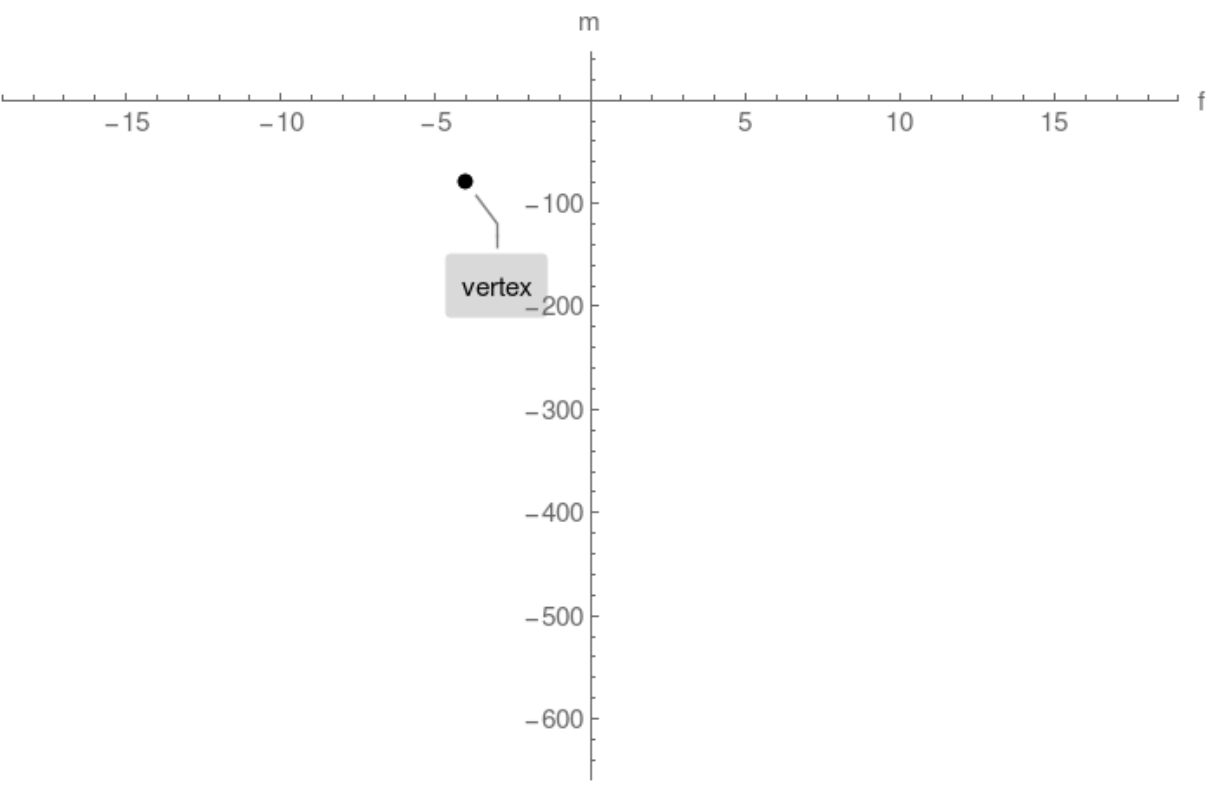
Example 2. No horizontal intercepts found

Plot $m(f) = -f^2 - 8f - 96$

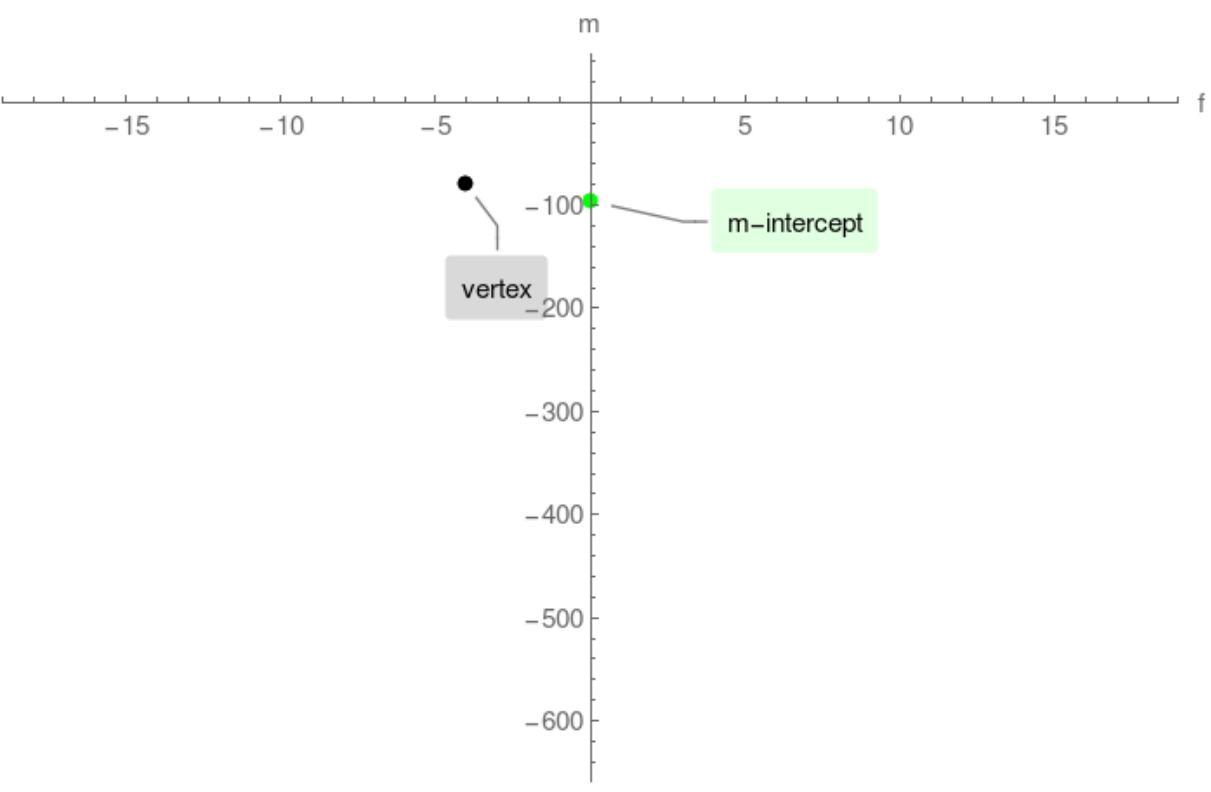
Step 1.

Compute vertex and plot single point:
vertex$= (-4, -80)$



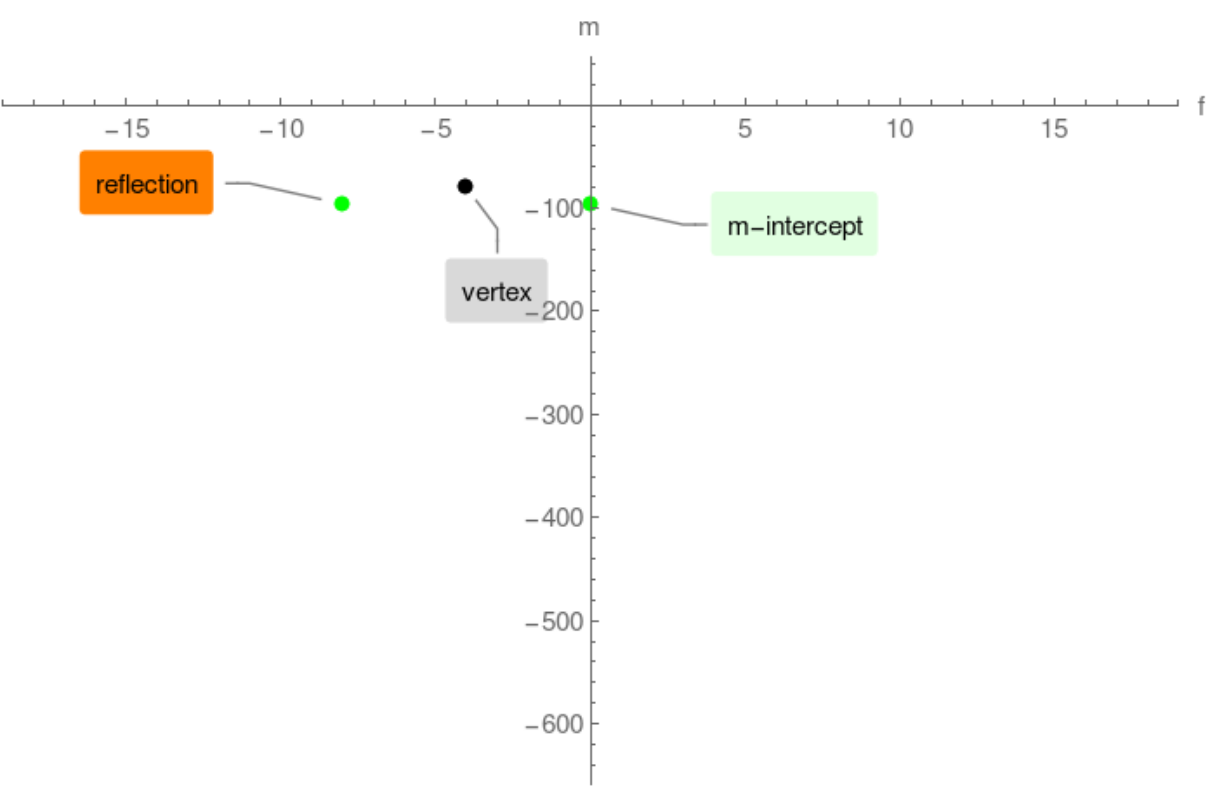
Step 2.

Compute m-intercept and plot single point:
m-intercept$= (0, -96)$



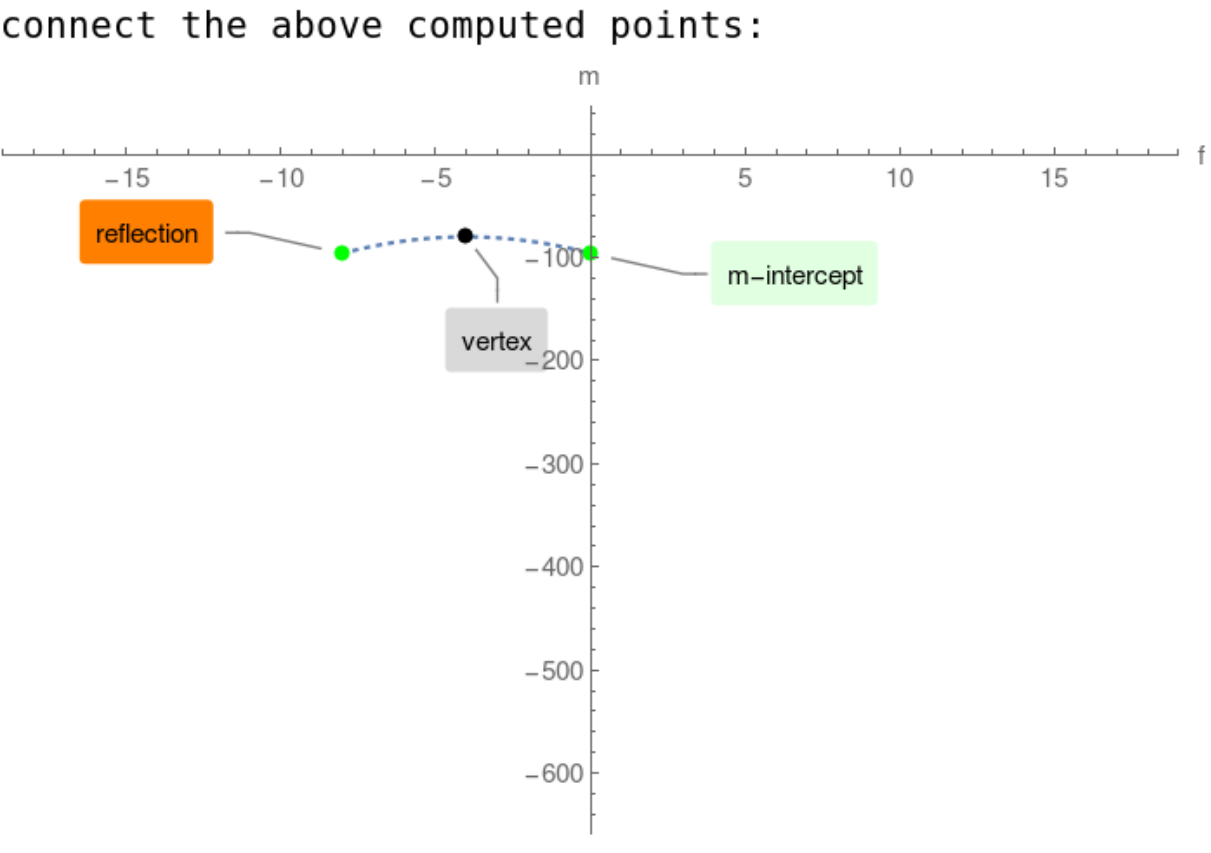
Step 3.

Compute m-intercept reflected against vertex,
reflection$= (-8, -96)$



Step 4.

connect the above computed points:



Step 5.

Extend the parabola beyond the range of intercepts