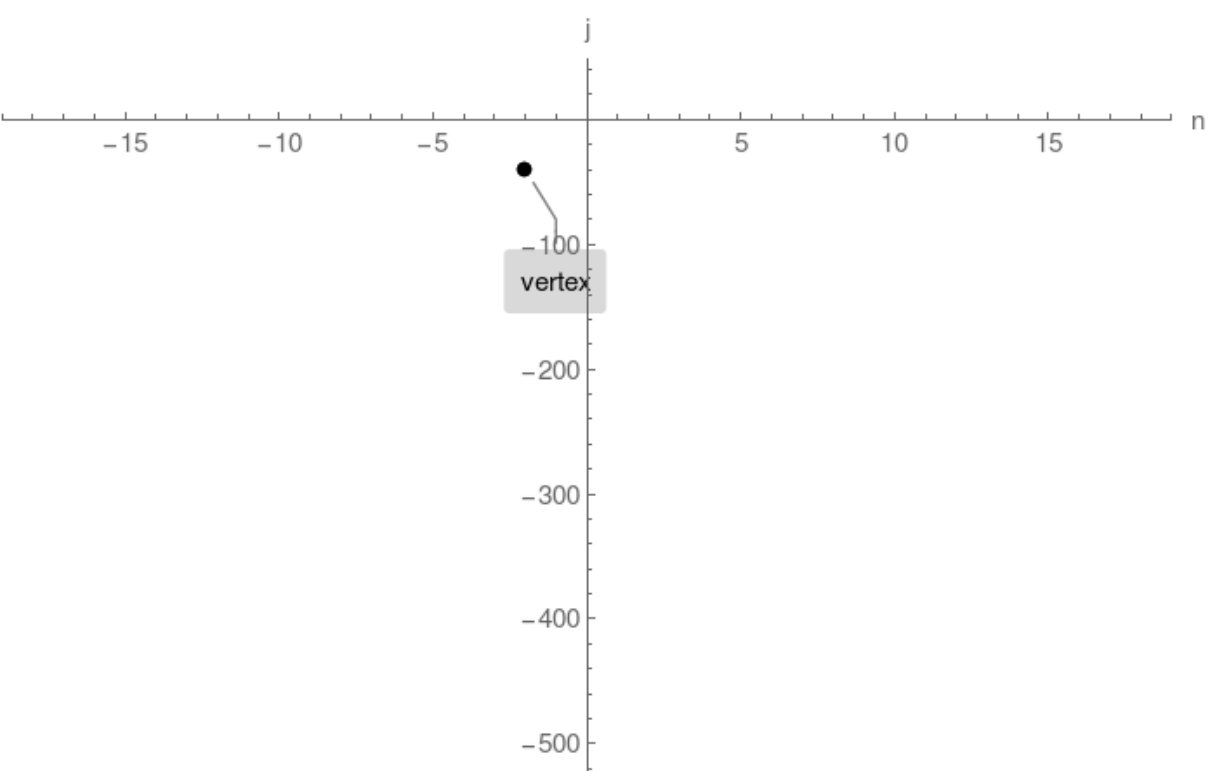# Example 2. No horizontal intercepts found

Plot $j(n) = -n^2 - 4n - 44$

Step 1.
Compute vertex and plot single point:
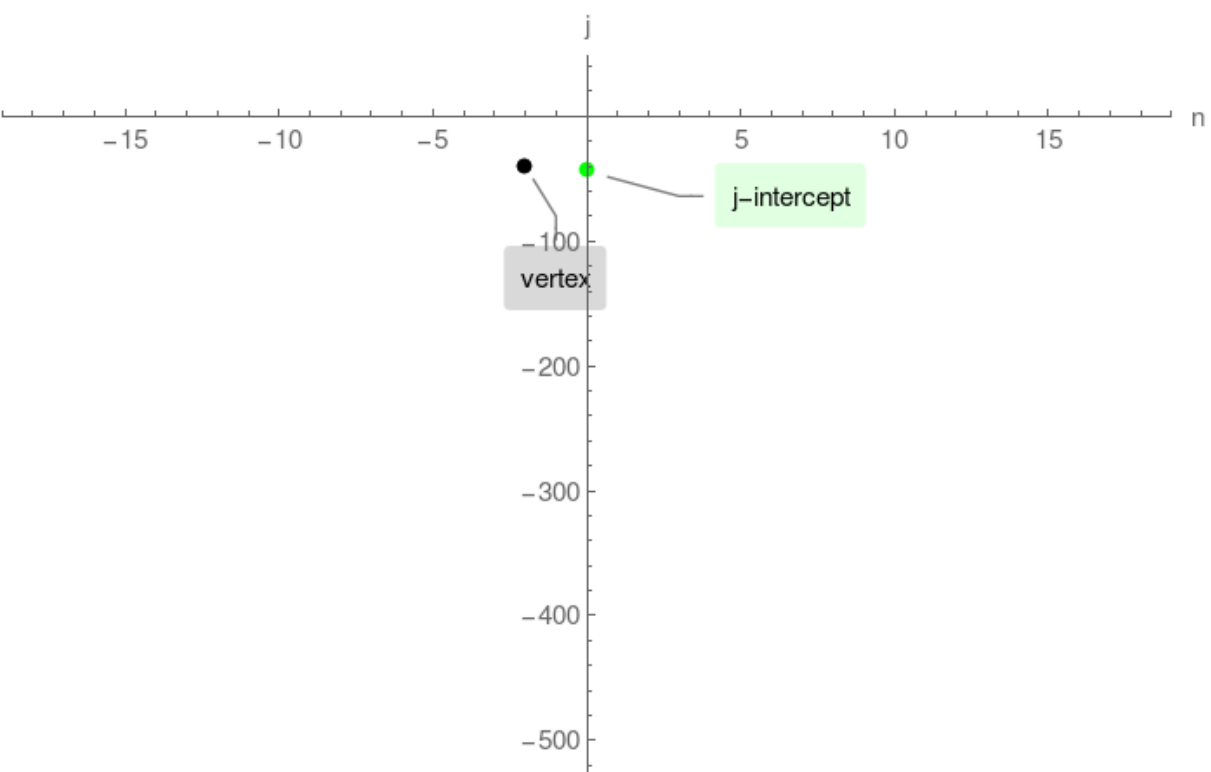vertex $= (-2, -40)$

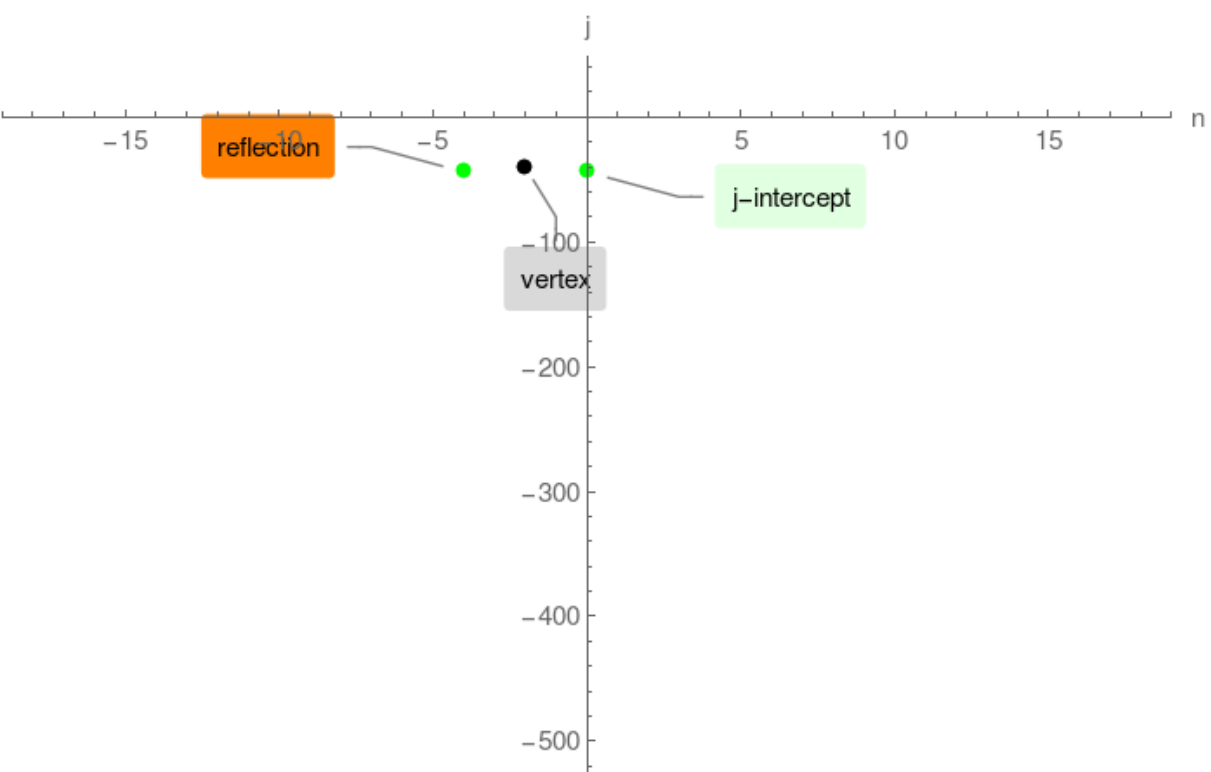**Step 2.**
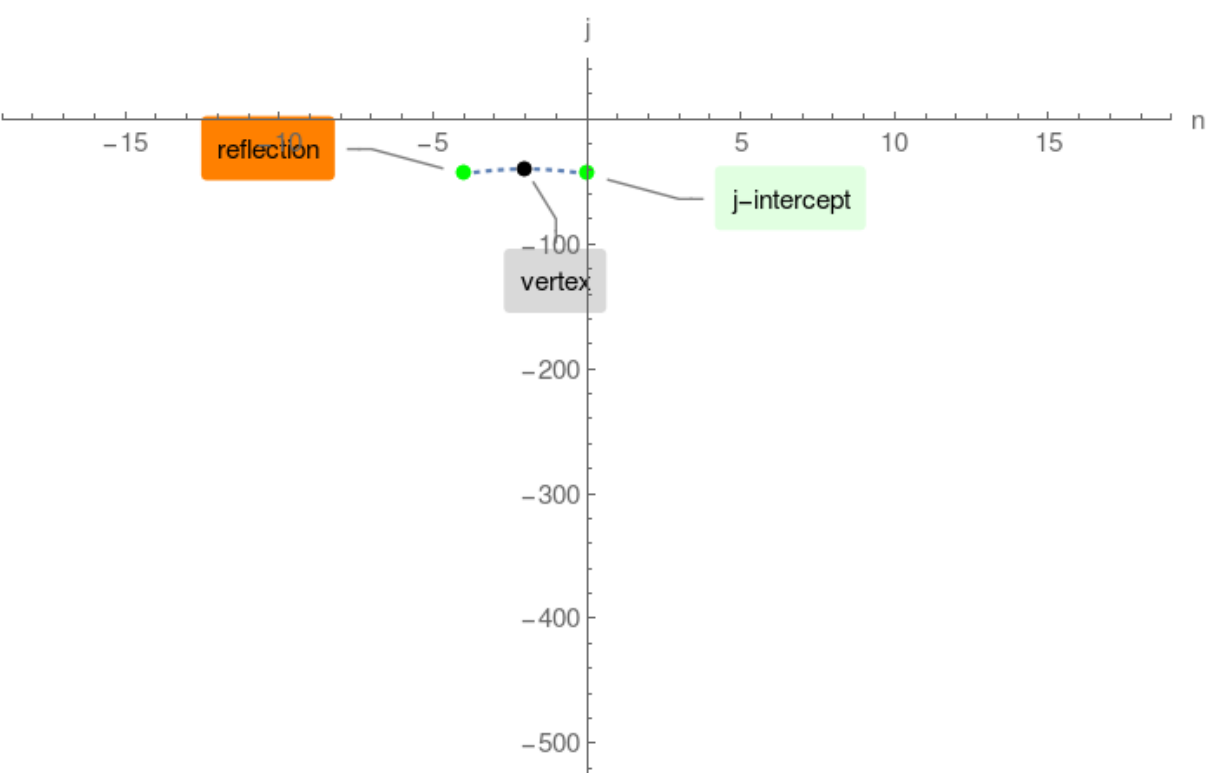Compute j-intercept and plot single point:
j-intercept $= (0, -44)$

Step 3.
Compute j-intercept reflected against vertex,
reflection $= (-4, -44)$

Step 4.
connect the above computed points:

Step 5.
Extend the parabola beyond the range of intercepts