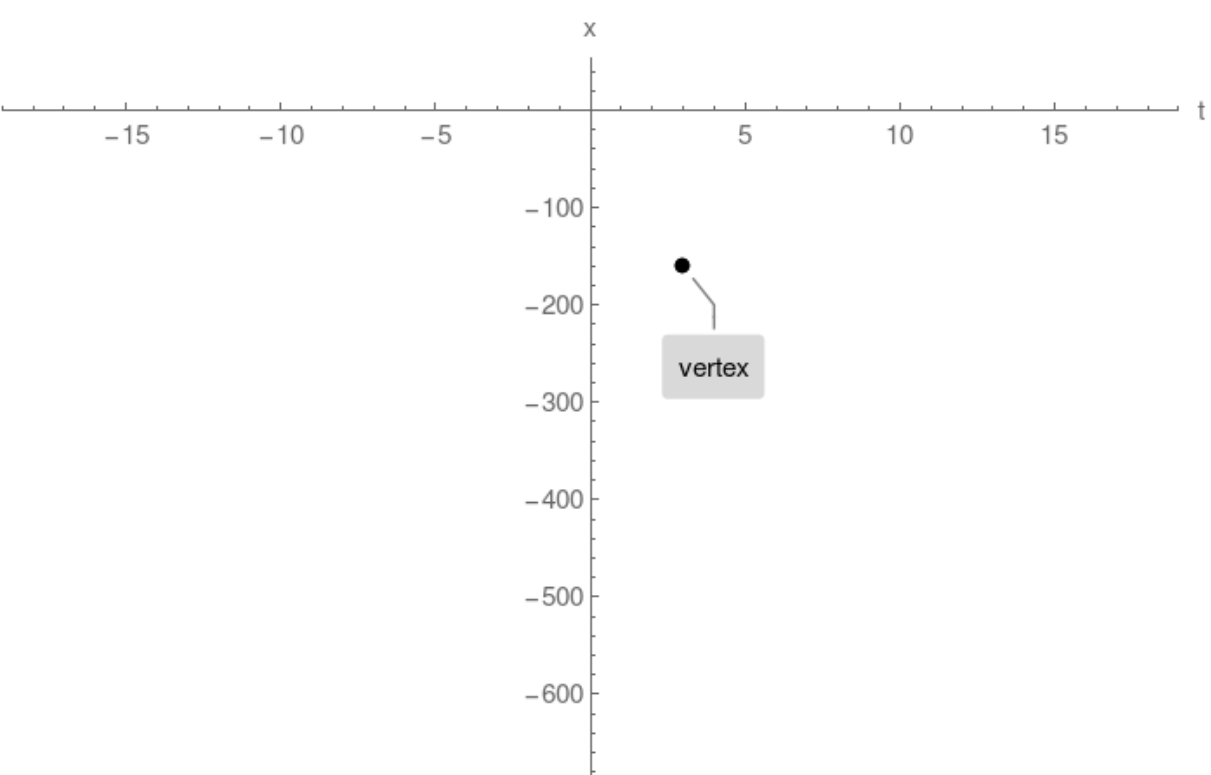# Example 2. No horizontal intercepts found

Plot $x(t) = -t^2 + 6t - 169$

Step 1.
Compute vertex and plot single point:
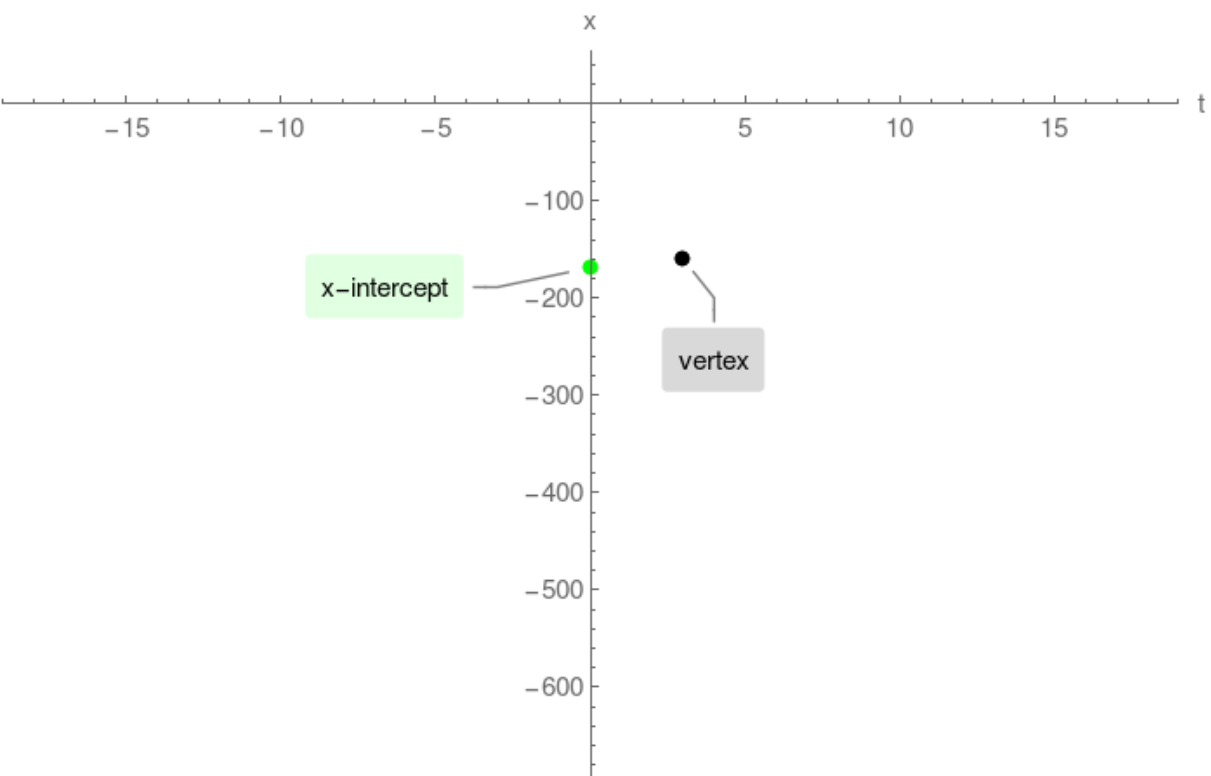vertex = $(3, -160)$

Step 2.
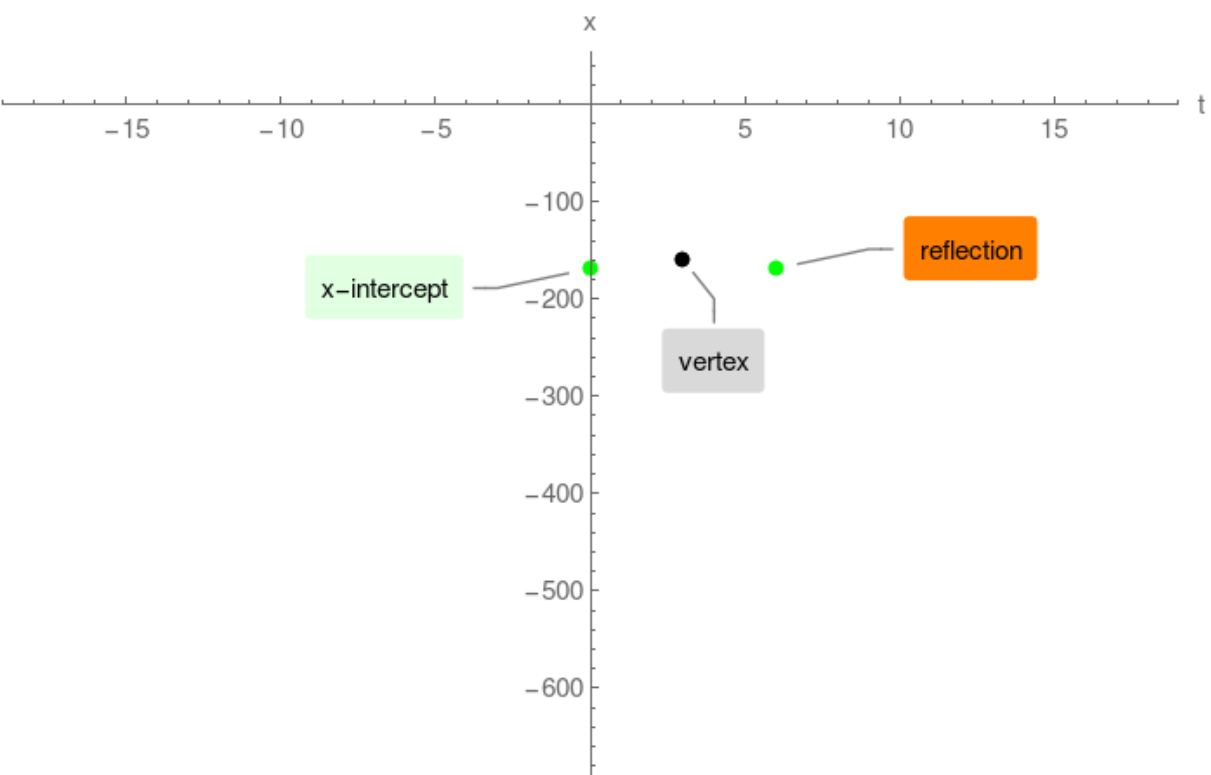Compute x-intercept and plot single point:
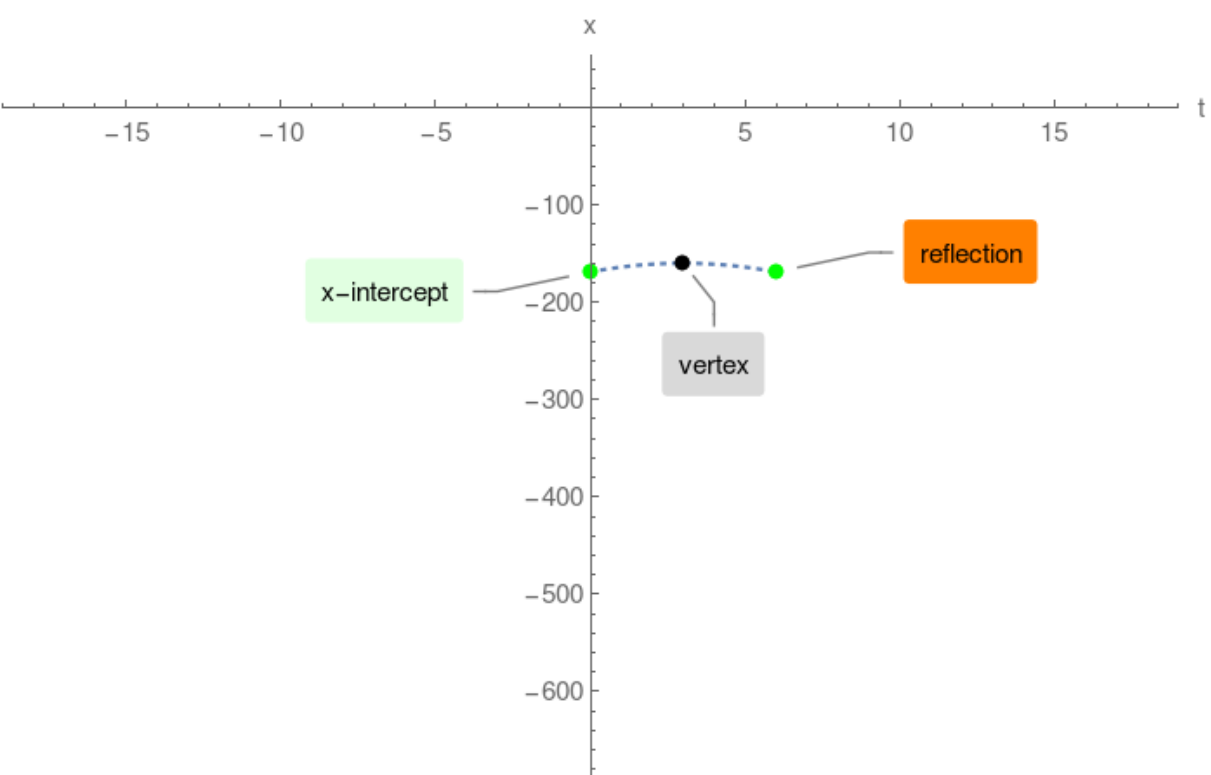x-intercept = $(0, -169)$

Step 3.
Compute x-intercept reflected against vertex,
reflection = $(6, -169)$

Step 4.
connect the above computed points:

Step 5.
Extend the parabola beyond the range of intercepts