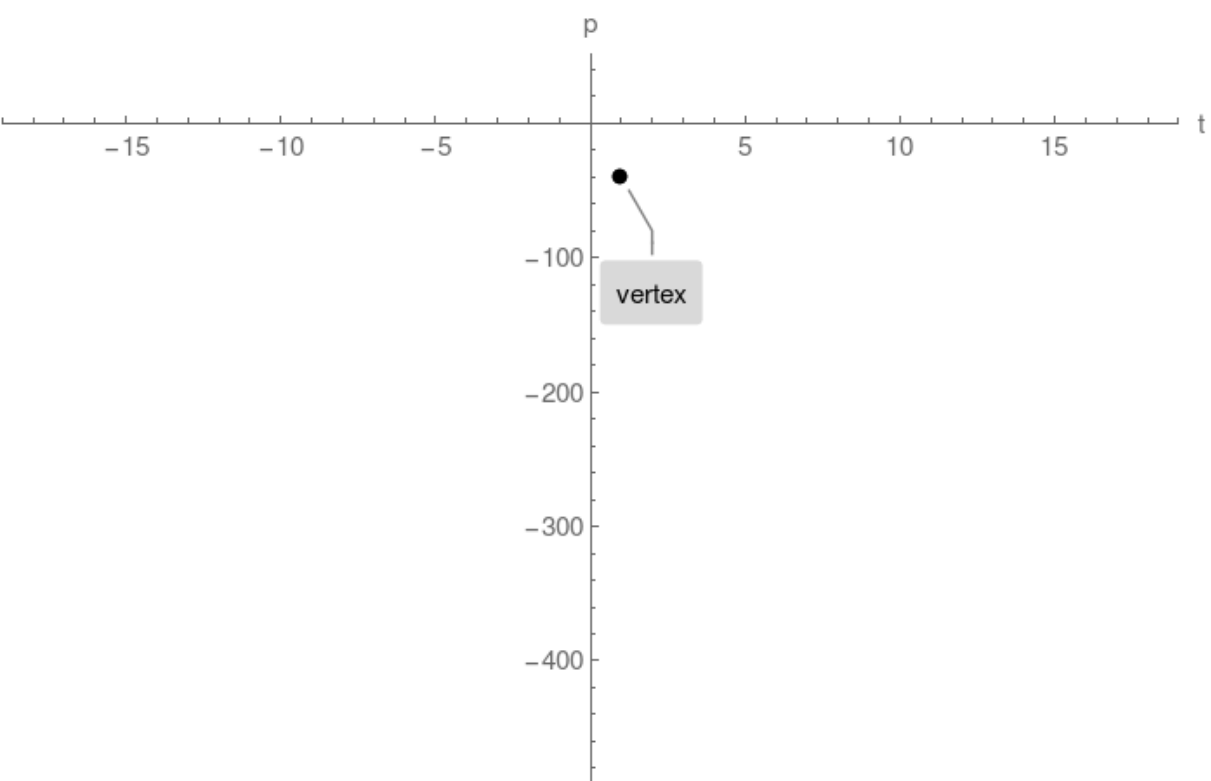# Example 2. No horizontal intercepts found

Plot $p(t) = -t^2 + 2t - 41$

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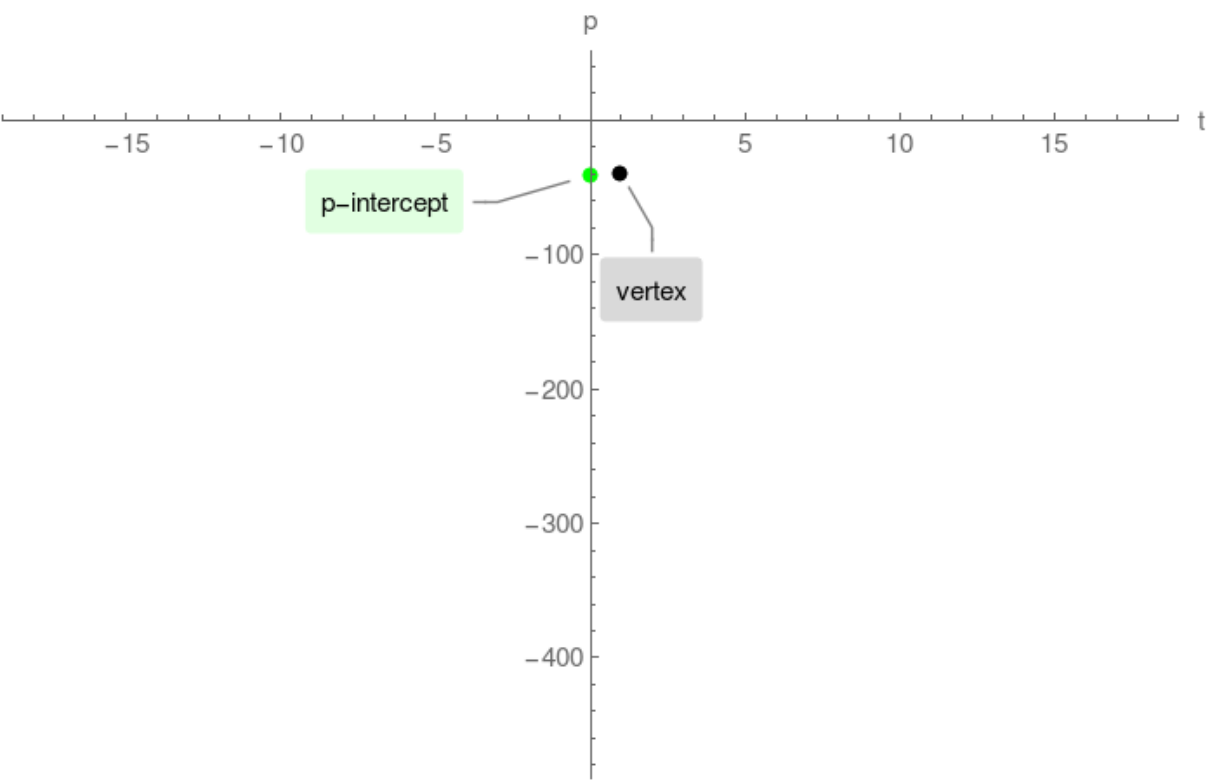vertex=$(1,-40)$

Step 2.
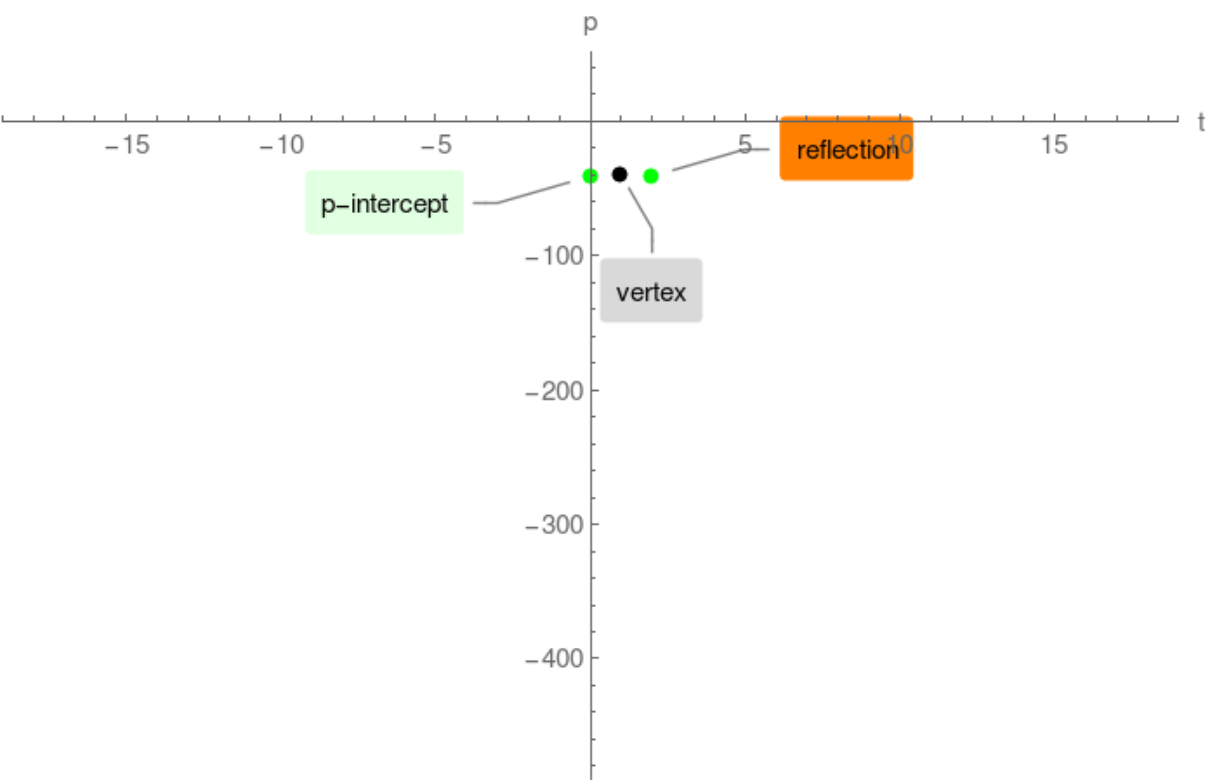Compute p-intercept and plot single point:
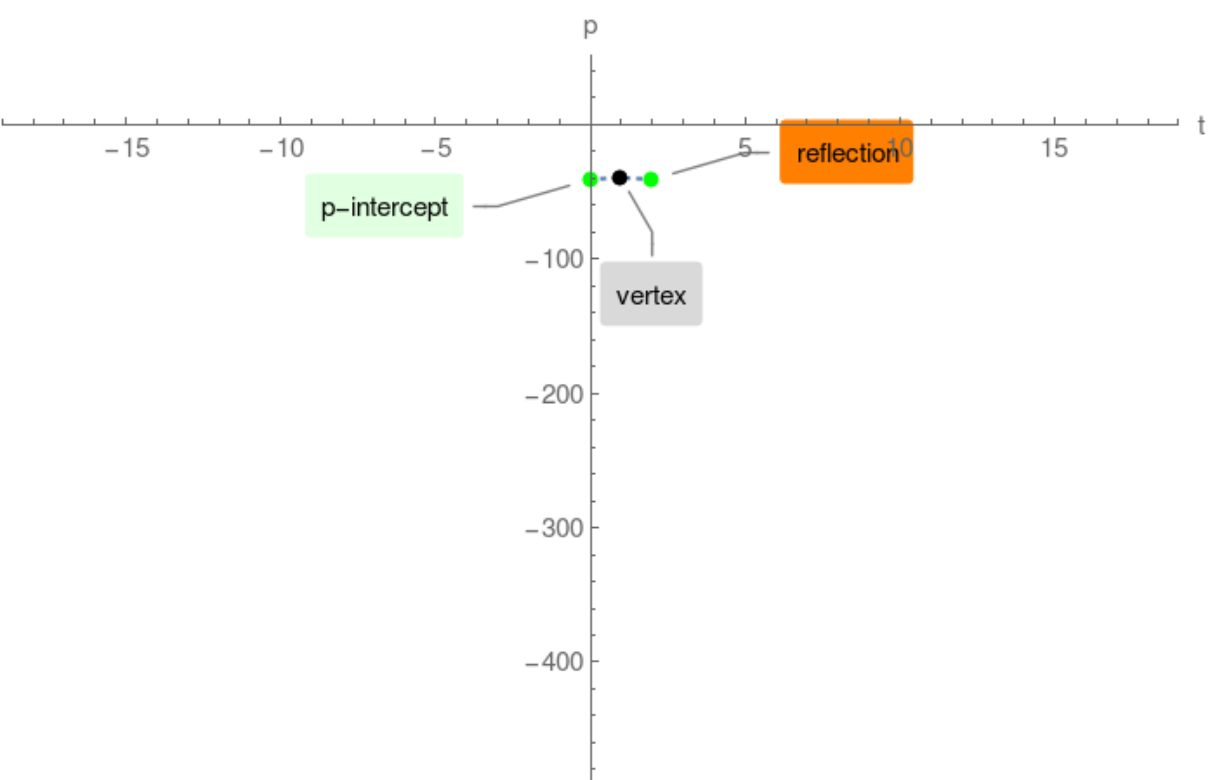p-intercept=$(0,-41)$

Step 3.
Compute p-intercept reflected against vertex,
reflection=$(2,-41)$

Step 4.
connect the above computed points:

Step 5.
Extend the parabola beyond the range of intercepts