Example 1. 2 horizontal intercepts found
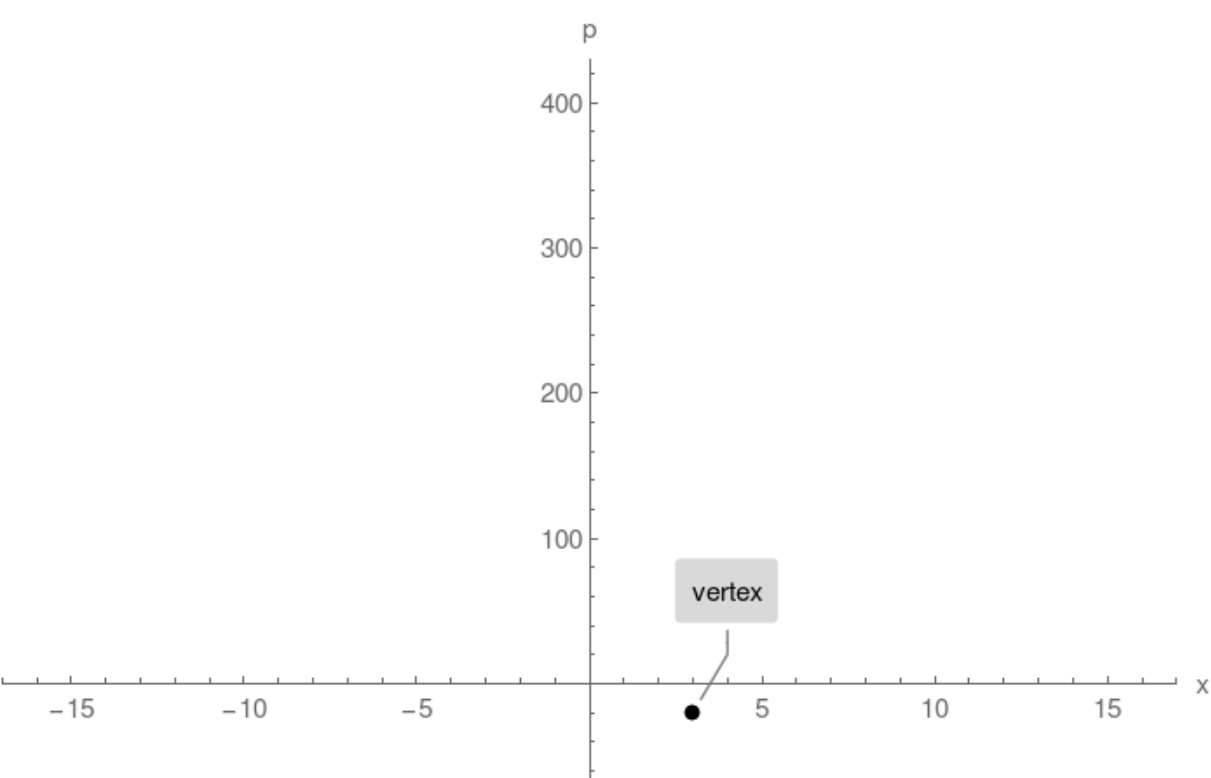
Plot $p(x) = x^2 - 6x - 11$

Step 1.
Compute vertex and plot single point:
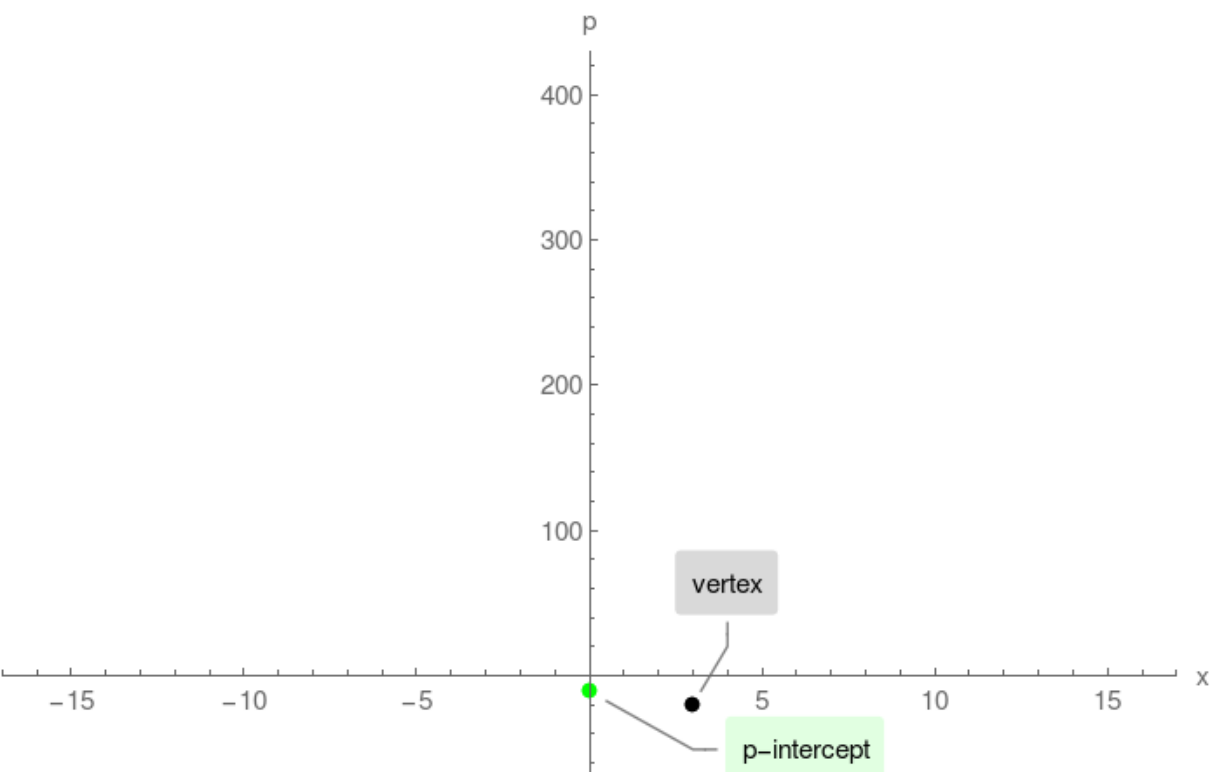vertex $= (3, -20)$

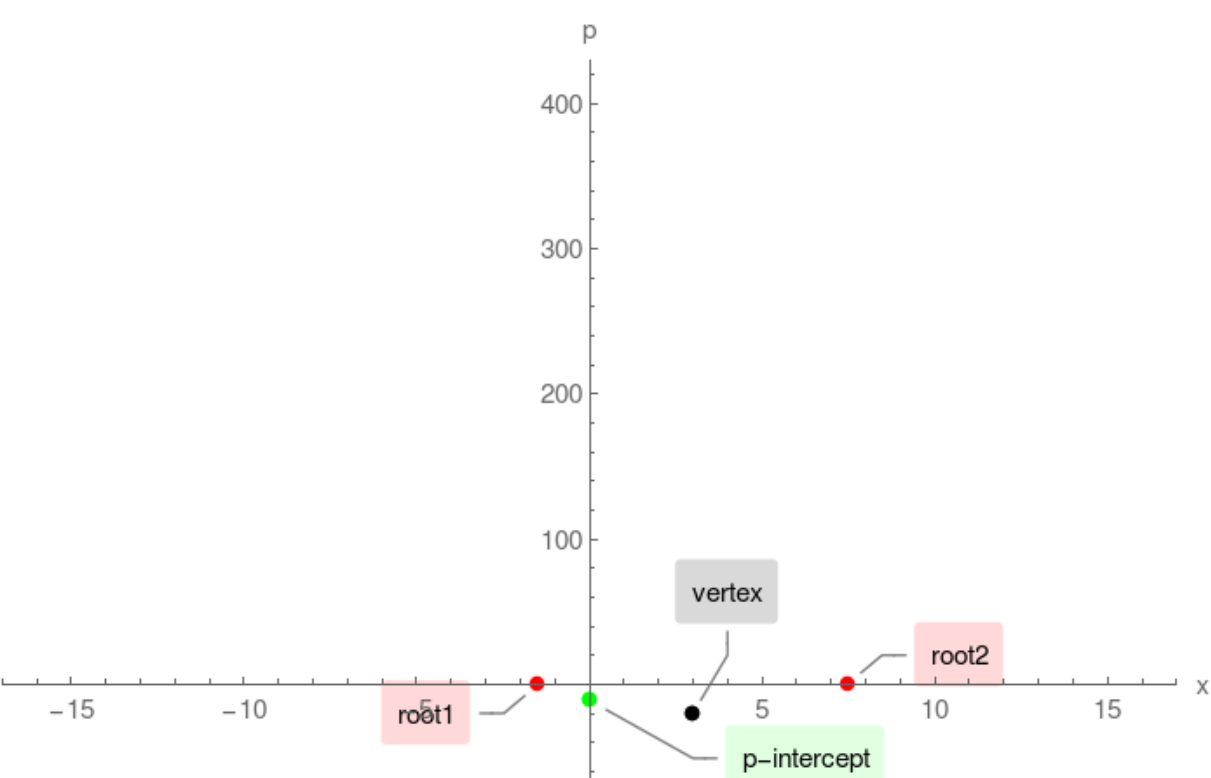**Step 2.**
Compute p-intercept and plot single point:
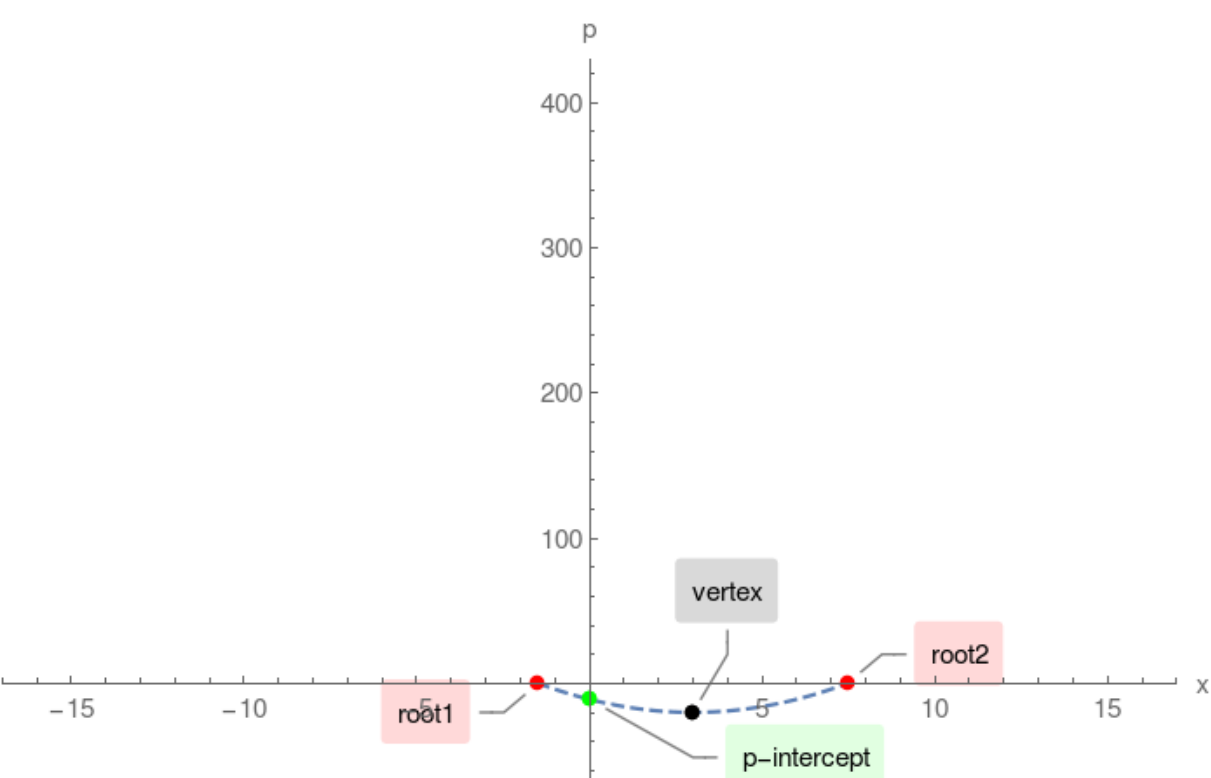p-intercept $= (0, -11)$

Step 3.
Compute x-intercepts by solving $x^2 - 6x - 11 = 0$:
$(3 - 2\sqrt{5}, 0)$, $(3 + 2\sqrt{5}, 0)$

Step 4.
connect the above computed points:

Step 5.
Extend the parabola beyond the range of intercepts