Example 2. No horizontal intercepts found
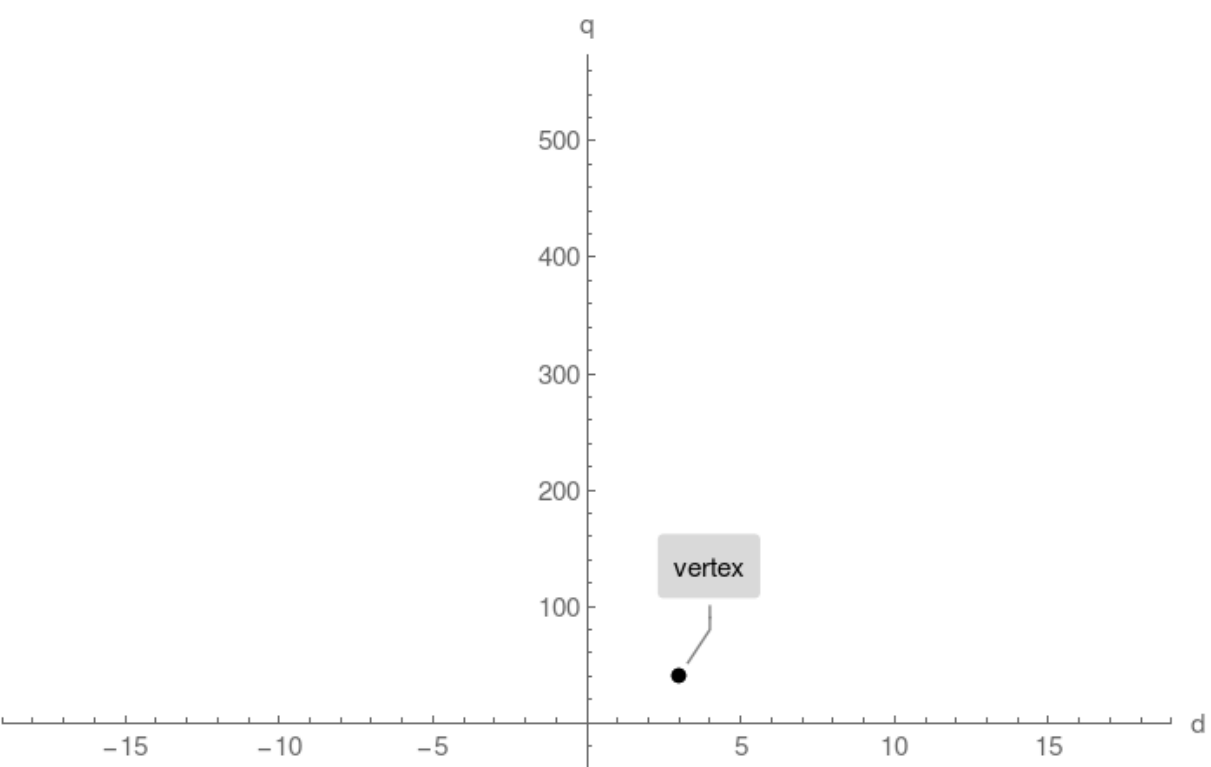
Plot $q(d) = d^2 - 6d + 49$

Step 1.
Compute vertex and plot single point:
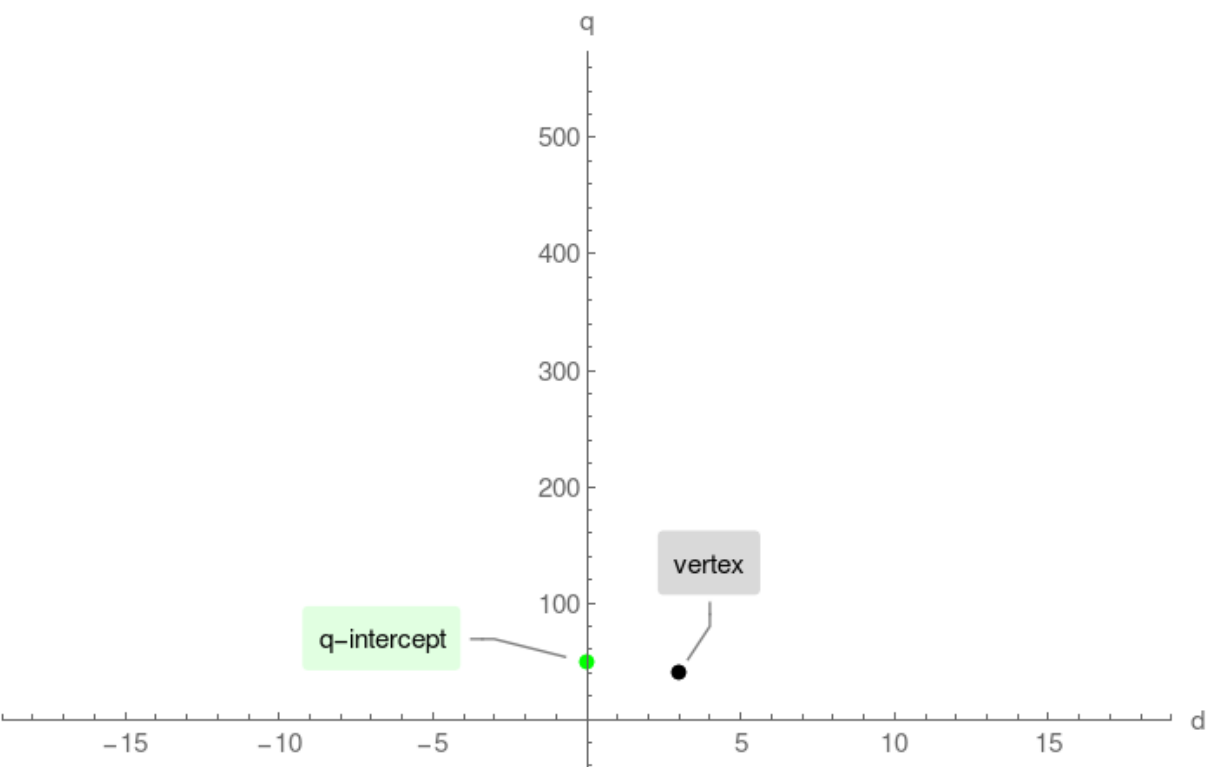vertex = $(3, 40)$

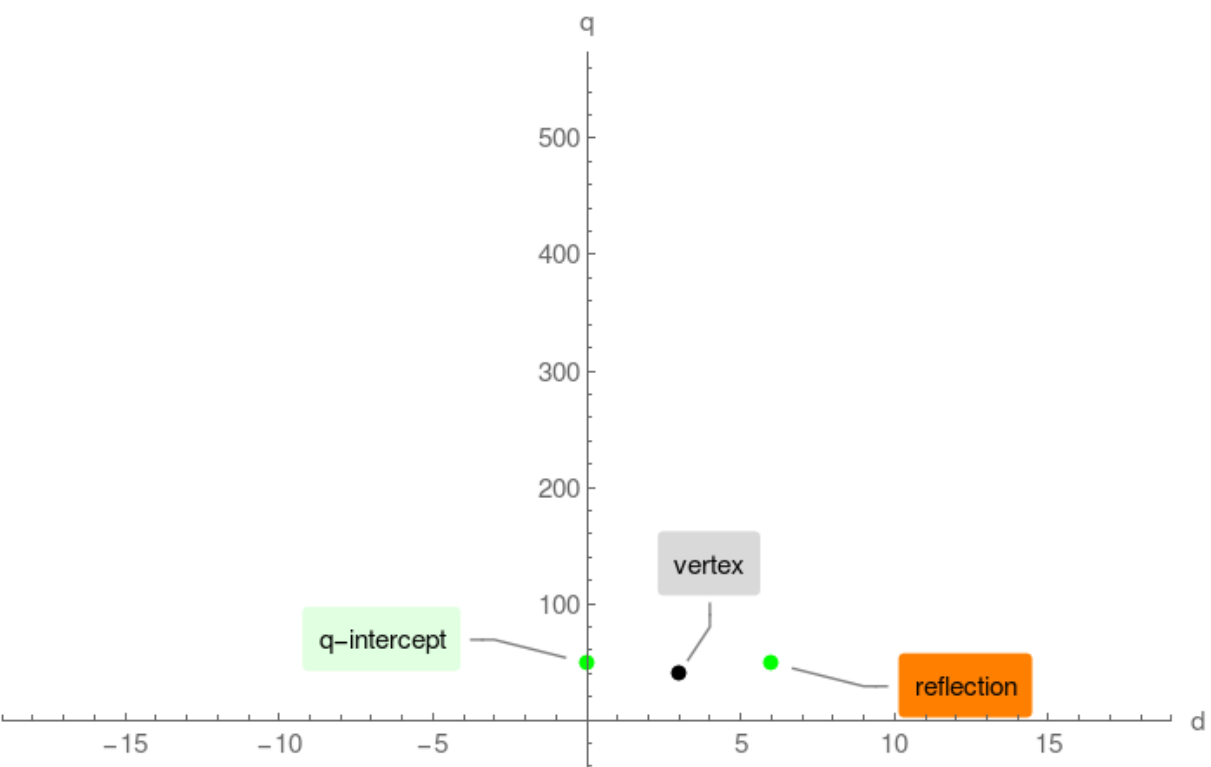**Step 2.**
Compute q-intercept and plot single point:
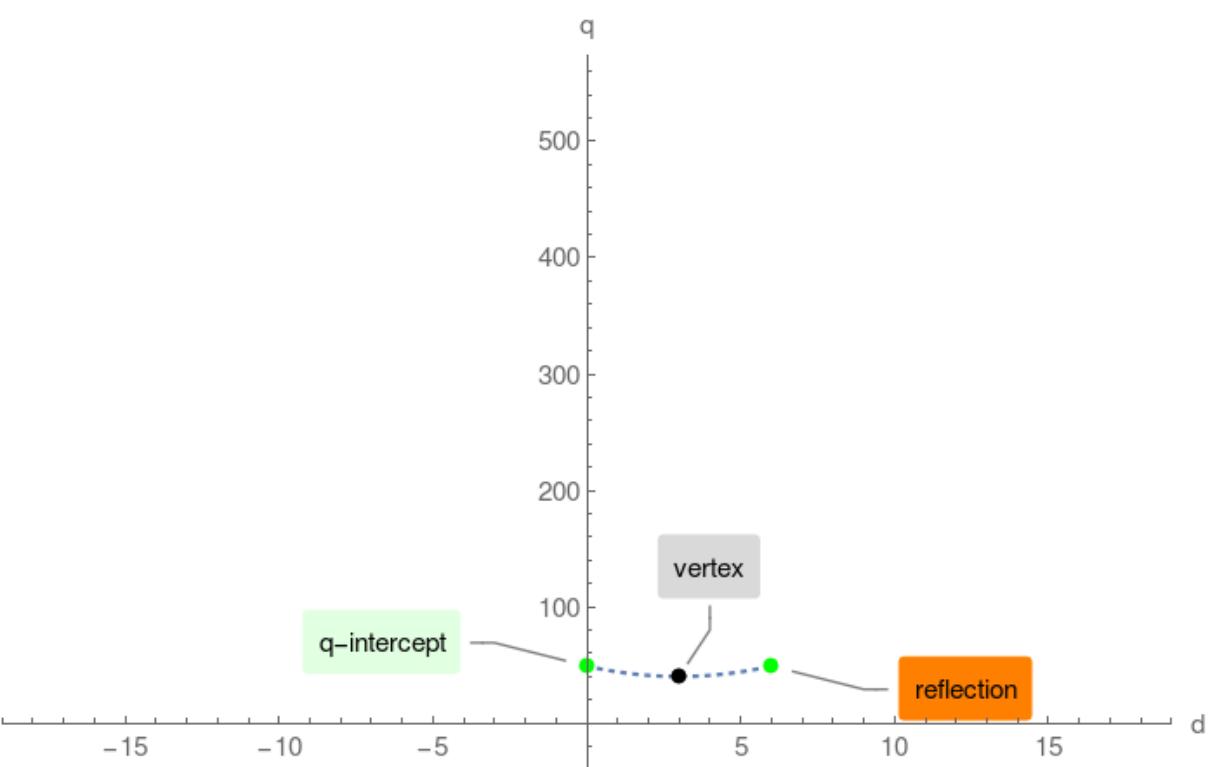q-intercept = $(0, 49)$

Step 3.
Compute q-intercept reflected against vertex,
reflection = $(6, 49)$

Step 4.
connect the above computed points:

Step 5.
Extend the parabola beyond the range of intercepts