$f(x) = x^3 - x + 1/4$
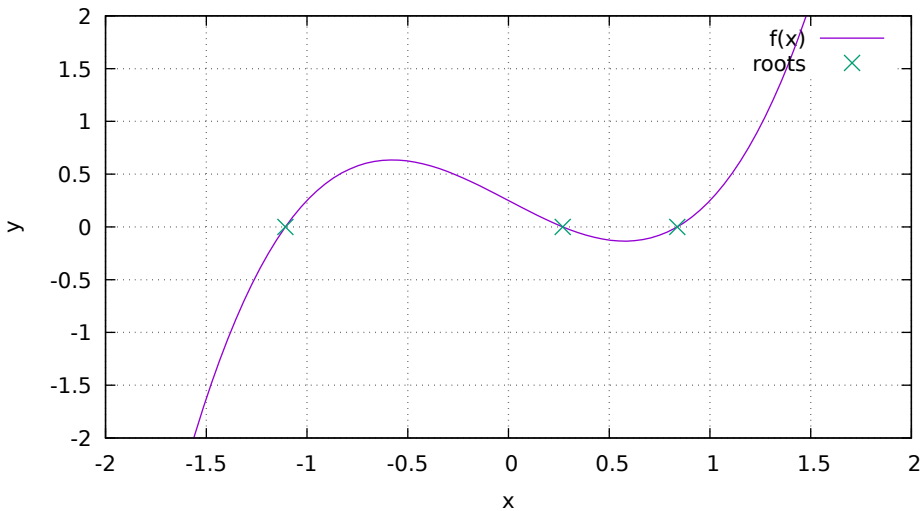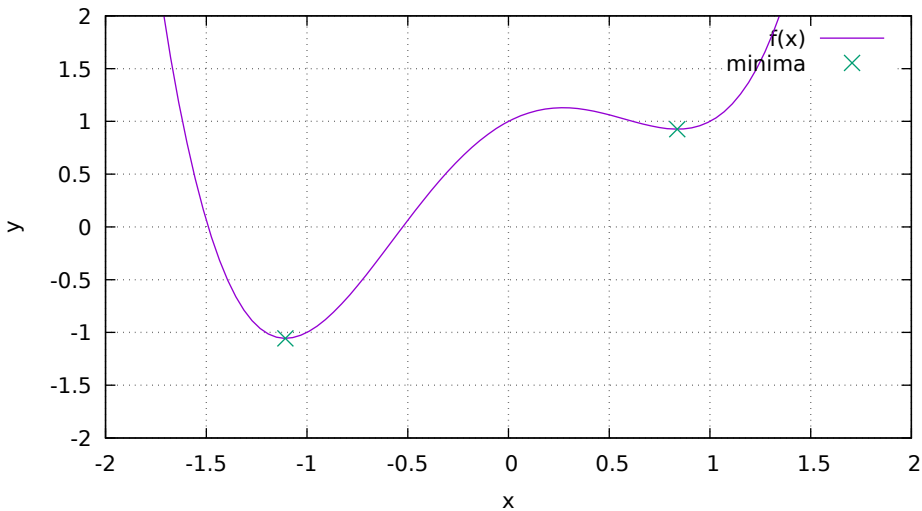
f(x) = (x² - 1)² + x

Non-linear fitting using LM