Badanie realizacji zad2

 $F(x) = (x - 1)^8$

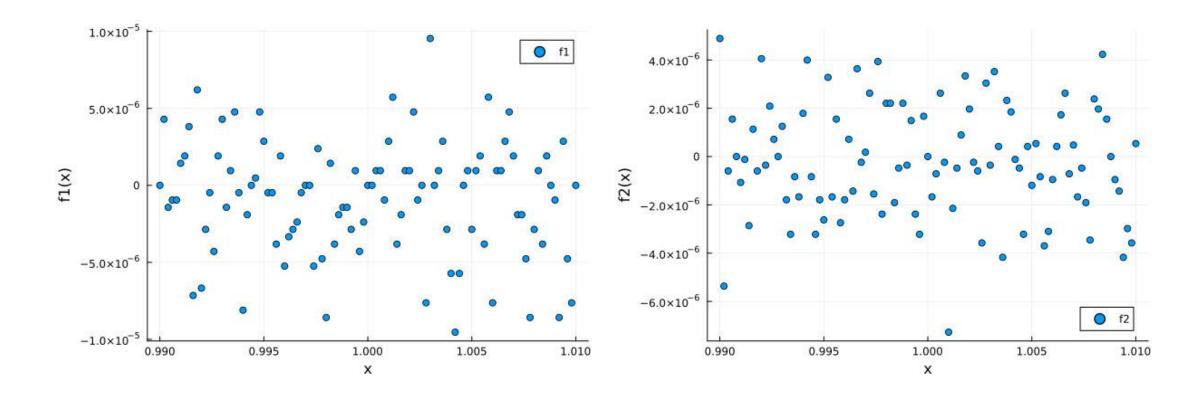
Wskaźnik uwarunkowania zadania

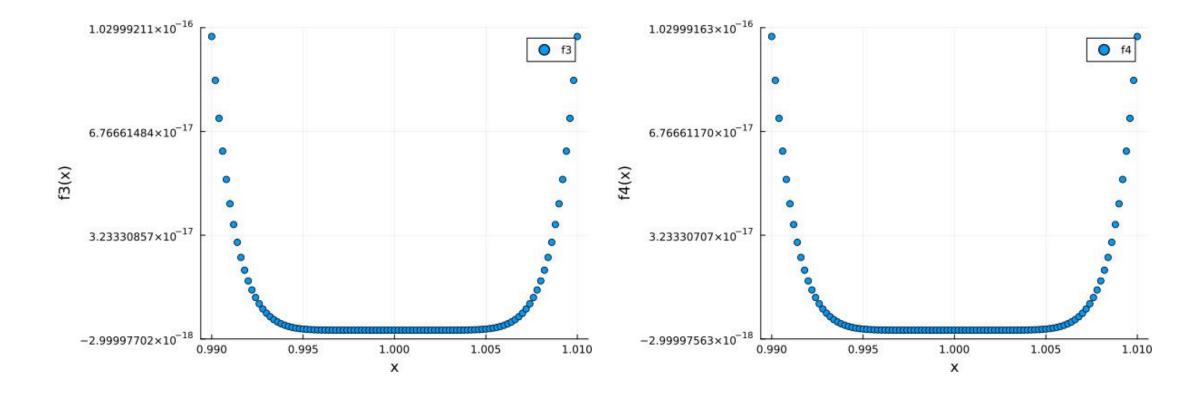
$$f(x) = (x - 1)^8$$

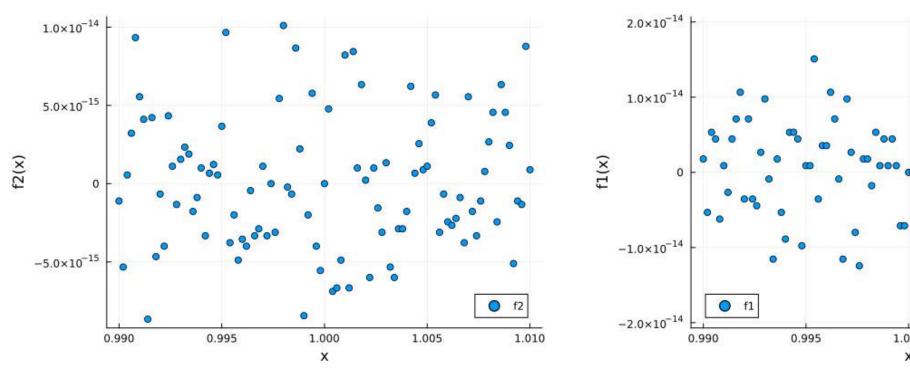
 $cond(f(x)) = |x f'(x) / f(x)| = |8x / x - 1|$
 $x = (1 + 2 * 10^{-4}) \Rightarrow cond(f(x)) \approx 10^3$
(krok który badamy)

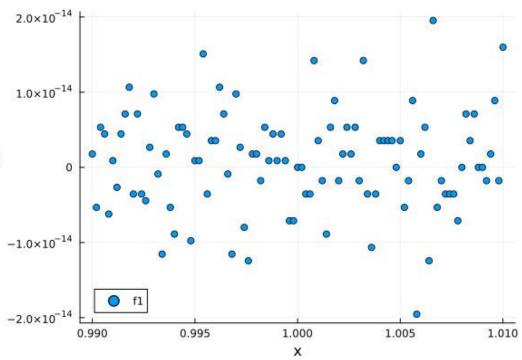
Algorytmy realizujące zadanie

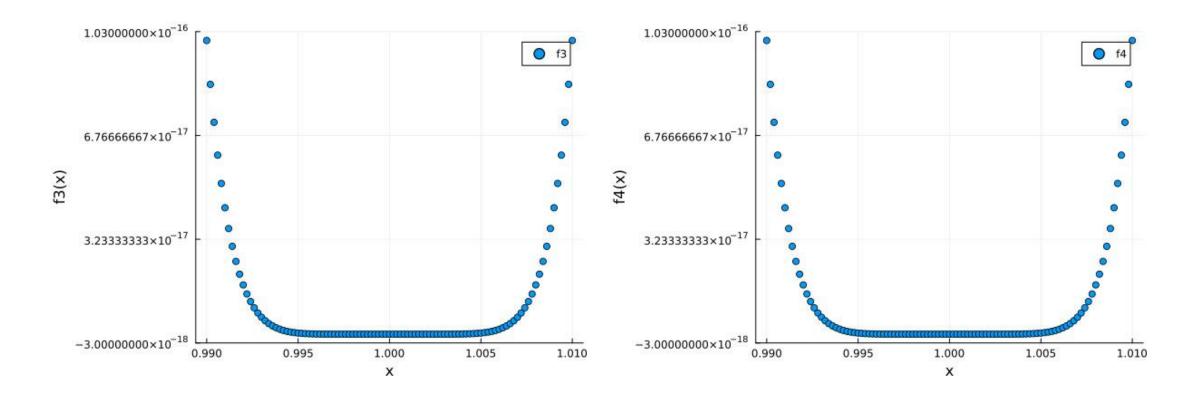
- $f1(x) = x^8 8x^7 + 28x^6 56x^5 + 70x^4 56x^3 + 28x^2 8x + 1$
- f2(x) = (((((((x 8)x + 28)x 56)x + 70)x 56)x + 28)x 8)x + 1
- $f3(x) = (x-1)^8$
- $f4(x) = e^{(8\ln(abs(x-1)))}, x \neq 1$











BigFloat

