

Lab8

June 14, 2022

1 Rozwiązywanie równań różniczkowych zwyczajnych

1.1 Bartosz Kucharz

2 Funkcja do analizy

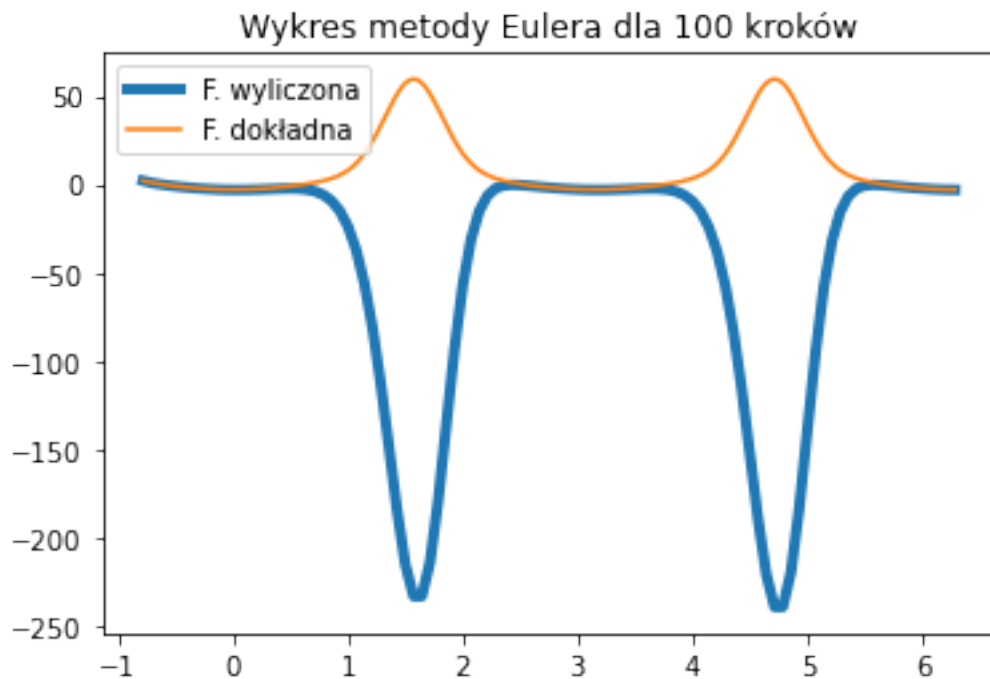
$$y' - kmy \sin(mx) = k^2 m \sin(mx) \cos(mx)$$

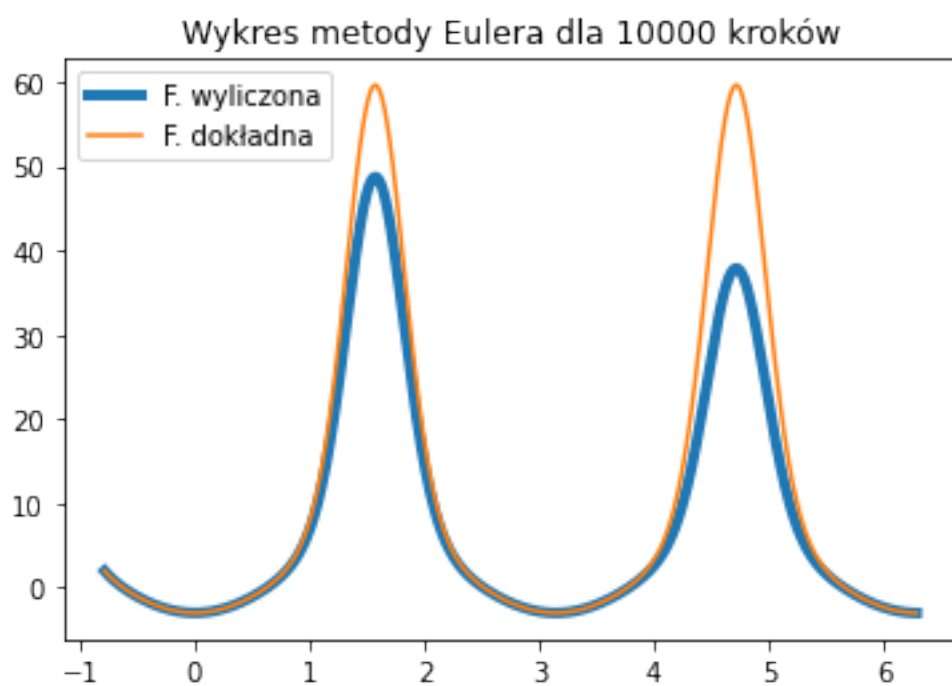
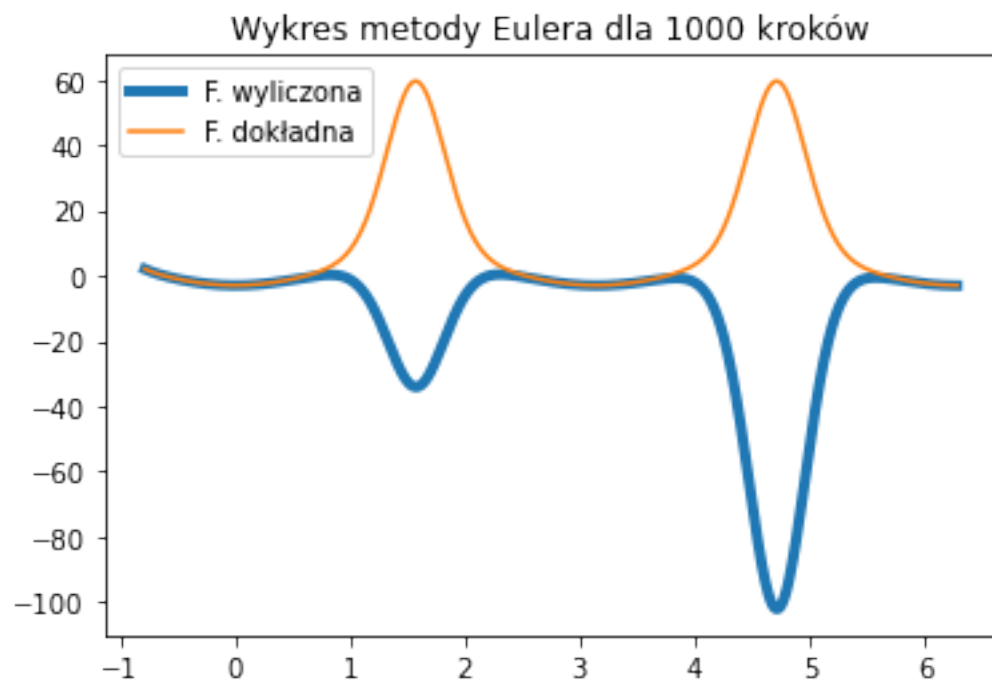
$$k = 4$$

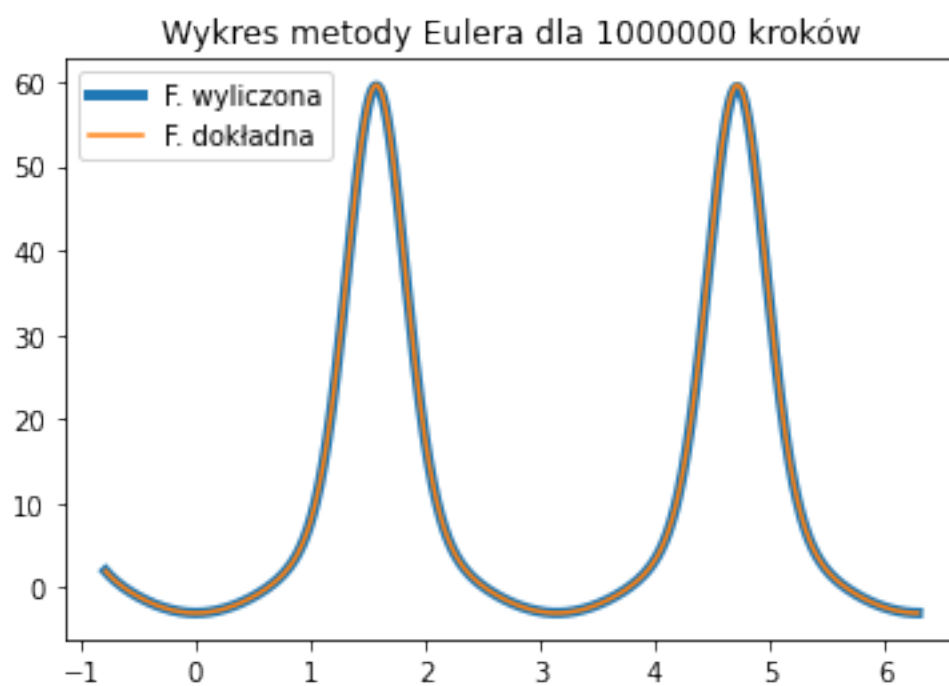
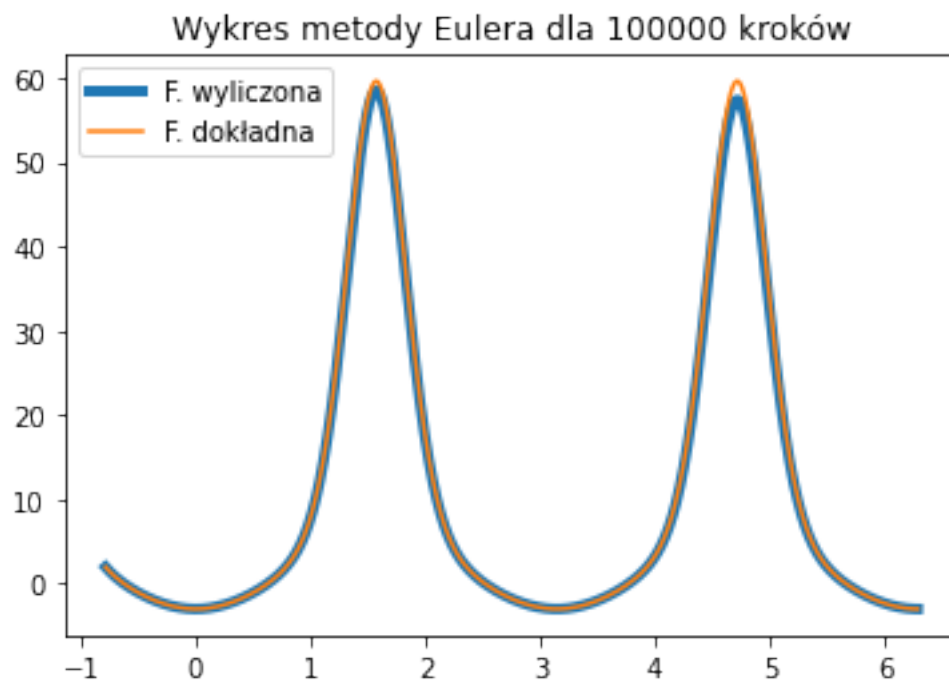
$$m = 2$$

3 Wyniki

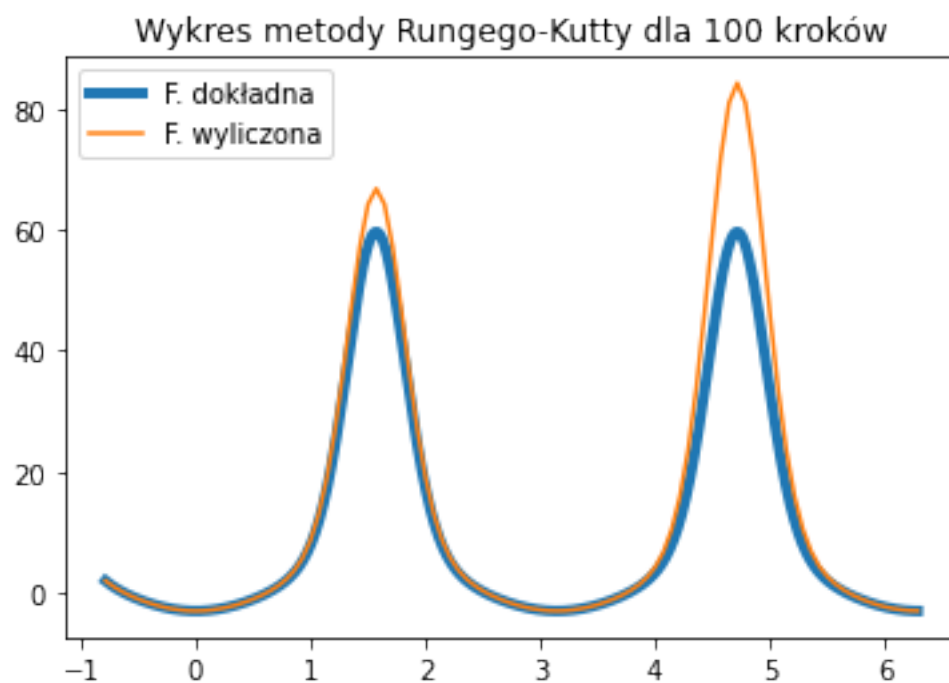
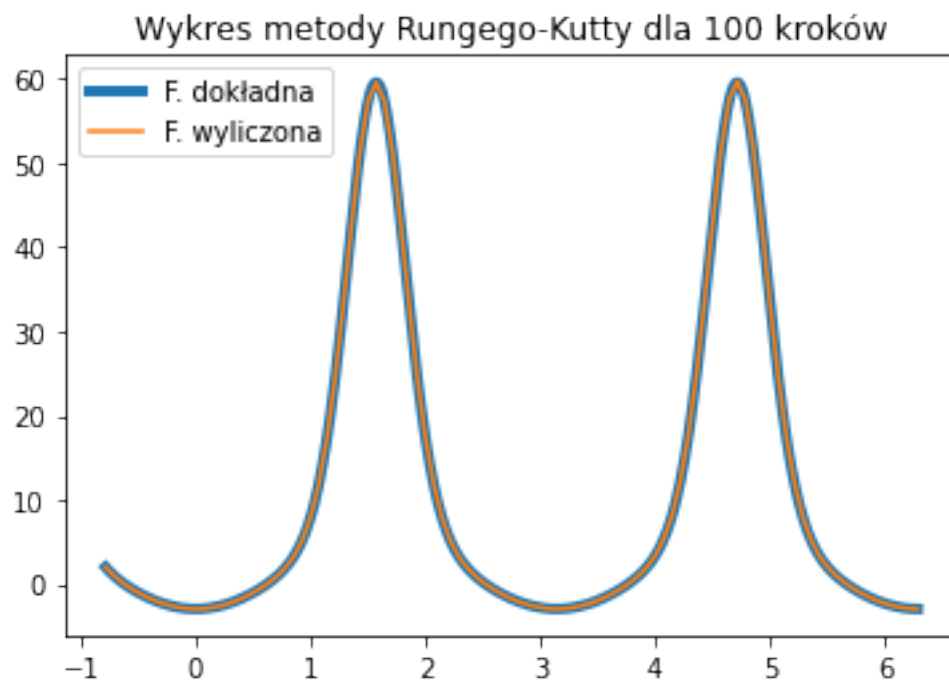
3.1 Metoda Eulera



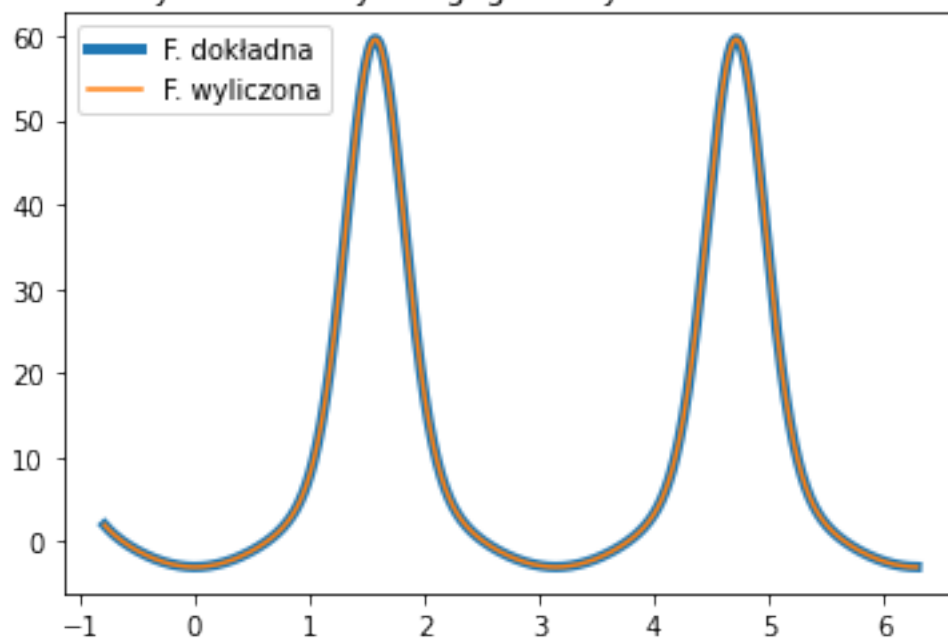




3.2 Metoda Rungego-Kutty



Wykres metody Rungego-Kutty dla 1000 kroków



Wykres metody Rungego-Kutty dla 100 kroków

