數值方法 Hw4. Least Square

tags: 數值方法 numerical 108-2

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用 Least Square 找出 n 次多項式 P(x) -> f(x)

分析, n 次多項式的最佳選擇為何?

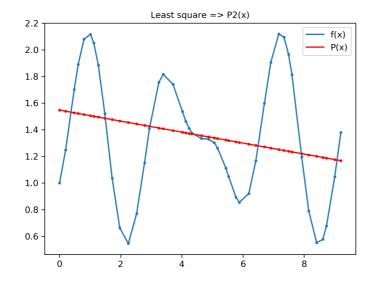
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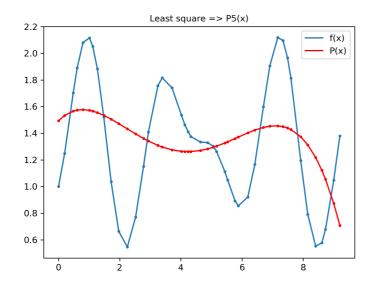
圖示說明

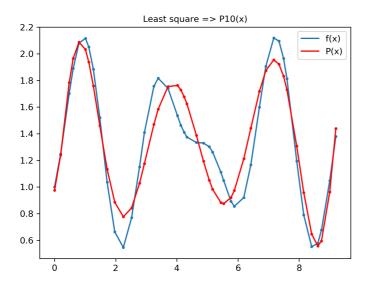
- 藍色部分為 f(x)
- 紅色部分為 P_n(x)

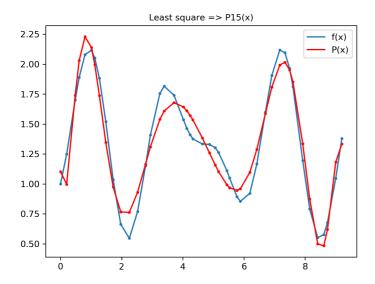
實驗結果

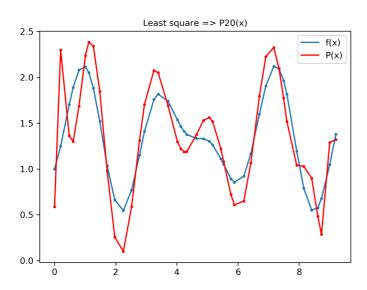
- 實驗區間n=2~45
- n=2

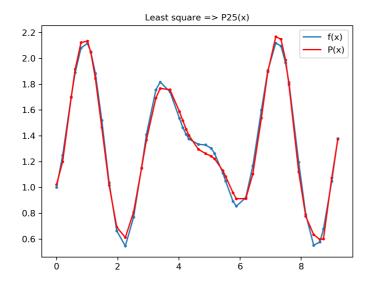


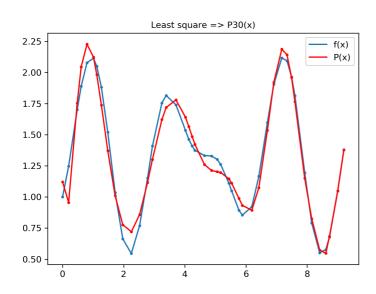


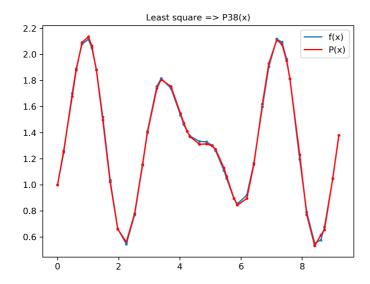


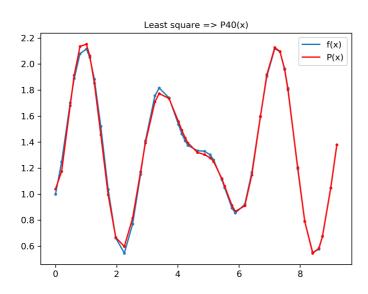


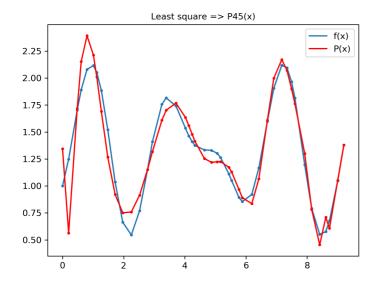












Code

 https://github.com/william31212/numerical/tree/master/HW4 (https://github.com/william31212/numerical/tree/master/HW4)