1.

```
使用 1 階 Lagrange 多項式:
近似 cos(0.750) = 0.73207714286
誤差界估計值: 0.00044200000
真實誤差: 0.00037714286

使用 2 階 Lagrange 多項式:
近似 cos(0.750) = 0.73171632653
誤差界估計值: 0.00000265200
真實誤差: 0.00001632653

使用 3 階 Lagrange 多項式:
近似 cos(0.750) = 0.73170395569
誤差界估計值: 0.00000003514
真實誤差: 0.00000395569

degree 4:只有提供4點,無法求

Process exited after 0.157 seconds with return value 0
請按任意鍵繼續 . . . . . . . . . . . . . .
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2.

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y = e^{-x} \cdot 3 \times 5) \times 43 \times 9
e^{-x^{2}} \cdot 3 + 0 \cdot 31 \cdot 8, \quad e^{-0.9} \cdot 0.0700 = e^{-0.3} \cdot 0.0673) = 9 \times 8
e^{-x^{2}} \cdot 0.3 + 889 = -2 \times 9
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3.

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| import numpy st np |
| from scipy, interested import CubicHermiteSpline |
| distance points = np. max ([0, 3, 5, 8, 11]) |
| distance points = np. max ([0, 260, 375, 620, 998]) |
| velocity points = np. max ([75, 77, 80, 74, 72]) |
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