1.

```
解為:

x1 = 0.176776

x2 = 0.012692

x3 = -0.020661

x4 = -1.183264
```

2.

```
A 的反矩陣 A<sup>-1</sup> 為:
[[ 0.2797 -0.0805  0.0383 -0.0153]
[-0.0805  0.3793  0.0575 -0.023 ]
[ 0.0383  0.0575  0.2107 -0.0843]
[-0.0153 -0.023  -0.0843  0.2337]]
```

3.

```
x1 = 1.311430
x2 = 1.934290
x3 = 1.935884
x4 = 0.628571
```