1.

```
一次插值 P1(0.750) = 0.7320771, 誤差 = 0.0003883
二次插值 P2(0.750) = 0.7317163, 誤差 = 0.0000275
三次插值 P3(0.750) = 0.7317040, 誤差 = 0.0000151
```

Degree one: P1(0.750) = 0.7320771, 誤差 = 0.0003883

Degree two: P2(0.750) = 0.7317163, 誤差 = 0.0000275

Degree three: P3(0.750) = 0.7317040, 誤差 = 0.0000151

2.

$$P(0) = 0.5671426$$

X = 0.5671426

3.

- a. D(10) = 727.87 ft, V(10) = 79.76 ft/s
- b. 會超速,第一次超過的時間點:t=10.27s
- c. 81.71 ft/s