

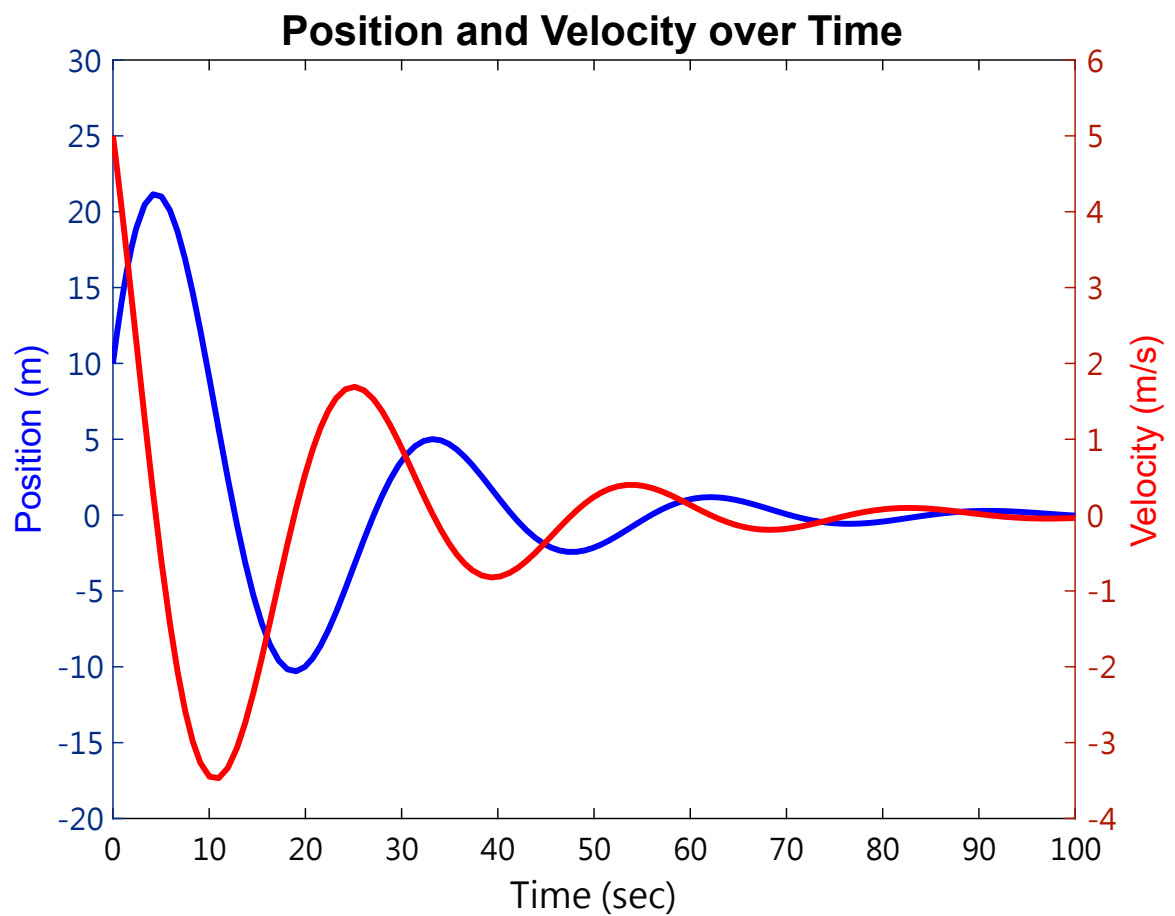
Answer For Hw4

Problem 1 Solution

不会导动图，所以不知道给什么（
但是能跑

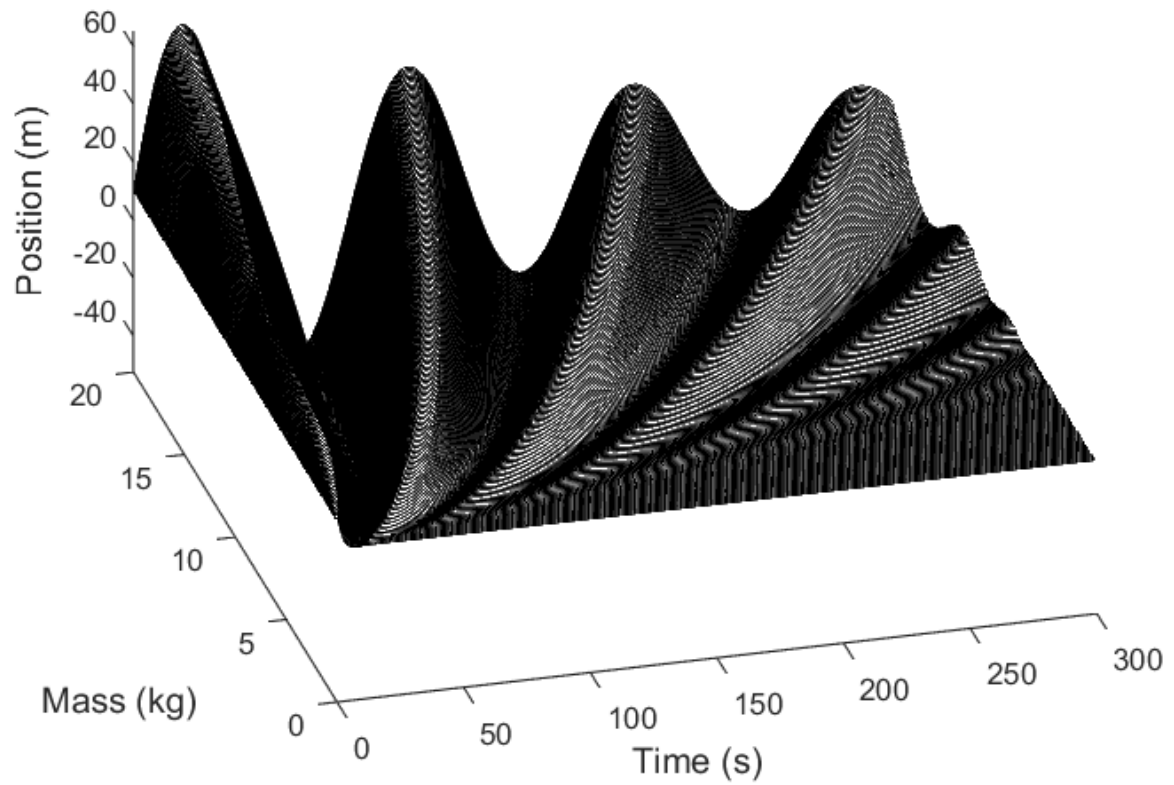
Problem 2 Solution

- msd_posVel

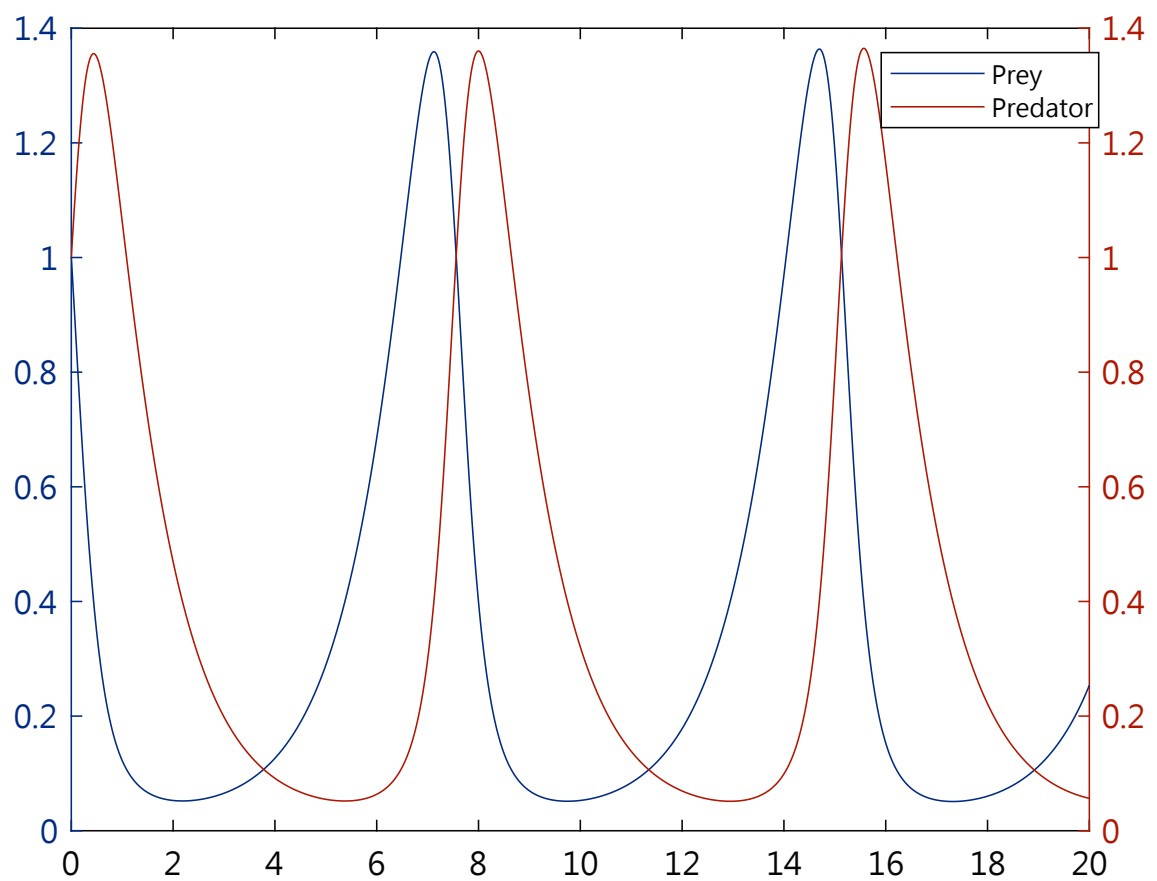


- msd_water
参数是 $0 \leq m \leq 20kg, 0 \leq t \leq 300s$

Position over Time for Different Masses



Problem 3 Solution



Problem 4 Solution

- test (起点为3, 3)

```
1 1 0 1 1 0 1 0;
```

```
1 0 1 0 1 1 1 1;
```

```
1 1 1 0 1 0 0 0;
```

```
0 0 1 1 1 1 1 0;
```

```
1 1 1 0 0 0 1 1;
```

```
1 1 0 1 1 1 0 1;
```

```
1 1 1 1 0 1 1 0;
```

```
1 1 0 1 1 0 1 0;
```

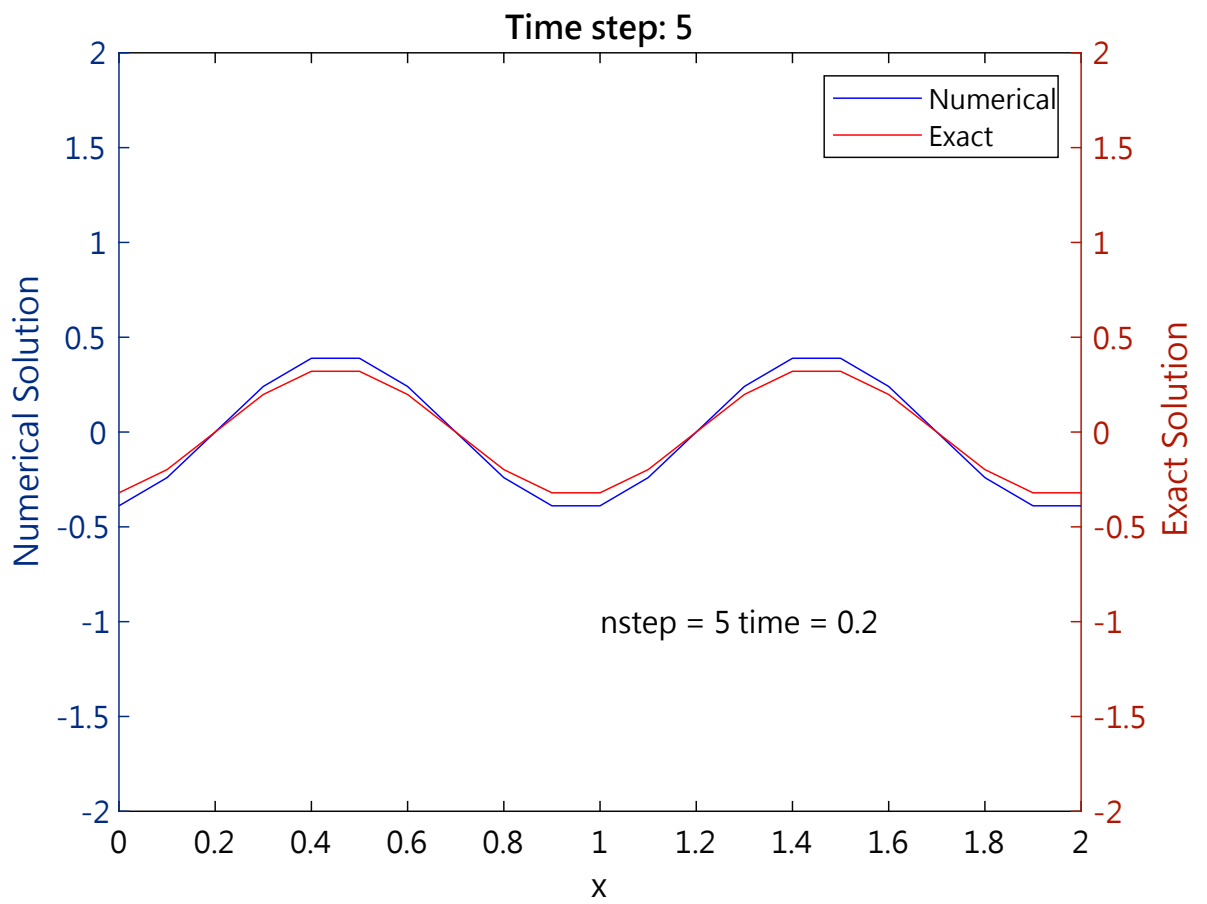
- ans

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 4 | 5 | Inf | 7 | 6 | Inf | 8 | Inf |
| 3 | Inf | 1 | Inf | 5 | 6 | 7 | 8 |
| 2 | 1 | 0 | Inf | 4 | Inf | Inf | Inf |
| Inf | Inf | 1 | 2 | 3 | 4 | 5 | Inf |
| 4 | 3 | 2 | Inf | Inf | Inf | 6 | 7 |
| 5 | 4 | Inf | 8 | 9 | 10 | Inf | 8 |
| 6 | 5 | 6 | 7 | Inf | 11 | 12 | Inf |
| 7 | 6 | Inf | 8 | 9 | Inf | 13 | Inf |

Problem 5 Solution

注：下标没有用n而是改成了x

- Step 5



- Step 10

