

## 作業 1 解答

1

(a)

```
> sqrt(10)
```

```
[1] 3.162278
```

(b)

```
> 2^10
```

```
[1] 1024
```

(c)

```
> sum(1:100)
```

```
[1] 5050
```

(d)

```
sum((1:100)^2)
```

```
[1] 338350
```

(e)

```
> 1/sqrt(2*pi)
```

```
[1] 0.3989423
```

2.

```
> price<-read.csv("c:/RData/price.csv")
```

```
> price
```

	房屋價格	房屋大小	院子大小
1	48	2.2	4.3
2	54	2.1	5.2
3	35	1.3	2.4
4	89	3.3	7.8
5	59	3.2	3.8
6	67	2.8	4.0
7	76	2.9	5.0
8	51	2.5	4.8

```
> attach(price)
```

(a)

```
> mean(房屋價格)
```

```
[1] 59.875
```

```
> sqrt(var(房屋價格))
```

```
[1] 17.04144
```

(b)

```
> mean(房屋大小)
```

```
[1] 2.5375
> sqrt(var(房屋大小))
[1] 0.6610327
(c)
> mean(院子大小)
[1] 4.6625
> sqrt(var(院子大小))
[1] 1.544518
3.
> Celsius<-c(25:33)
> Fahrenheit<-9/5*Celsius+32
> Celsius
[1] 25 26 27 28 29 30 31 32 33
> Fahrenheit
[1] 77.0 78.8 80.6 82.4 84.2 86.0 87.8 89.6 91.4
```