數理統計自主學習報告

4-58

```
> paste("P(0<=Z<=1.2)")
 [1] P(0 \le Z \le 1.2)
 > pnorm(1.2,lower.tail = TRUE)-pnorm(0,lower.tail = TRUE)
 [1] 0.3849303
 > paste("P(-0.9<=Z<=0)")
 [1] "P(-0.9 \le Z \le 0)"
 > pnorm(0,lower.tail = TRUE)-pnorm(-0.9,lower.tail = TRUE)
 [1] 0.3159399
 > paste("P(0.3<=Z<=1.56)")</pre>
 [1] P(0.3 \le Z \le 1.56)"
 > pnorm(1.56,lower.tail = TRUE)-pnorm(0.3,lower.tail = TRUE)
 [1] 0.3227086
 >
4-86
y^{2}gamma(1.5,4) x^{2}(3)
w=y/2^gamma(1.5,2)^x^2(3)
> pgamma(3.5,shape=1.5,rate=1/4,lower.tail = TRUE)
[1] 0.3741245
> pgamma(1.75,shape=1.5,rate=1/2,lower.tail = TRUE)
[1] 0.3741245
兩值輸出結果相等
4-123
> qbeta(0.95,4,3,lower.tail = TRUE)
[1] 0.8468389
> round(qbeta(0.95,4,3,lower.tail = TRUE),5)
[1] 0.84684
>
```