

```
# esercizi capitolo R
```

```
## problemi 1
```

```
## 1
```

```
> g <- c(4:9)
> somme <- (5*g+3)
> sum (somme)
[1] 213
```

```
## 2
```

```
> k <- c(3:8)
> somma <- 1/k
> sum (somma)
[1] 1.217857
```

```
## 3
```

```
> j <- c(0:5)
> som <- 2^j
> sum (som)
[1] 63
```

```
## 4
```

```
> k <- c(0:2)
> som <- (3*k-5)*x^k
Errore: oggetto 'x' non trovato
risolto a mano: x^2-2x-5
```

```
## 5
```

```
> i <- c(1:4)
> som <- 1/4*(i^2+1)
> sum (som)
[1] 8.5
```

```
## 6
```

```
> n <- c(1:100)
> som <- (-1)^n
> sum (som)
[1] 0
```

```
## 7
```

```
> n <- c(1:5)
> som <- (n+1)
> som
[1] 2 3 4 5 6
> prod (som)
```

```
[1] 720  
> prod (1:5)  
[1] 120  
> prod (1:4)  
[1] 24  
> prod (1:3)  
[1] 6  
> prod (1:2)  
[1] 2  
> som <- c(6,5,4,3,2)  
> sum (som)  
[1] 20
```

```
## 9  
> sum <- (3*(1:5)+5)  
> sum  
[1] 8 11 14 17 20
```

```
## 17  
> sum (5*(1:10)+3)  
[1] 305
```

```
## 18  
> sum (2*(1:20)-1)  
[1] 400
```

```
## 19  
> sum (3-(0:15))  
[1] -72
```

```
## 20  
> sum ((1/2)^(1:10))  
[1] 0.9990234
```

```
## 21  
> sum ((3/2)^(1:5))  
[1] 19.78125
```

```
## 22  
> sum (2*((1/4)^(0:5)))  
[1] 2.666016
```

```
## 23  
> sum (3*(0:98)+1)  
[1] 14652
```

```
## 24  
> sum (4-2*(0:75))
```

[1] -5396

26

> sum (1/(2^(1:16)))

[1] 0.9999847

27

> sum (3/((-2)^(0:16)))

[1] 2.000015

28

> sum (-2*(1:10)+((5/3)^(1:10)))

[1] 300.9543