R Notebook

```
U \leftarrow c(1,2,3,4,5,6,7,8,9,10,11,12)
A \leftarrow c(2,3,5,7,11)
B \leftarrow c(2,4,6,8,10,12)
C \leftarrow c(3,6,9,12)
                                                    A \cup B
AUB <- union(A,B)
                                                    A\cap B
AnB <- intersect(A,B)</pre>
                                                    B\cap C
BnC <- intersect(B,C)</pre>
                                                 (A \cup B) \cap C
intersect(AUB,C)
## [1] 3 6 12
                                              (A\cap B)\cup (B\cap C)
union(AnB,BnC)
## [1] 2 6 12
                                                   (A \cup B)'
setdiff(U,AUB)
## [1] 1 9
                                                    A' \cap B'
```

```
Acomp <- setdiff(U,A)

## [1] 1 4 6 8 9 10 12

Bcomp <- setdiff(U,B)

Bcomp

## [1] 1 3 5 7 9 11

intersect(Acomp,Bcomp)
```

[1] 1 9