## Week1\_discussion

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```
A <- matrix(c(1,4,-3,6,3,0),2, byrow=T)
B \leftarrow matrix(c(3,2,1,-2,-6,5),2,byrow=T)
C \leftarrow matrix(c(2,4,4,0,-2,2),3, byrow=T)
alpha <- 4
Betta <- 1/2
# 1. A+B
a1 \leftarrow A + B
a1
## [,1] [,2] [,3]
## [1,] 4 6 -2
## [2,] 4 -3 5
# 2. A + C No solution
# 3. Bt + C
a3 \leftarrow t(B)+C
a3
## [,1][,2]
## [1,] 5 2
## [2,] 6 -6
## [3,] -1 7
# 4. A + Bt No Solution
# 5. Betta*C
a5 <- Betta * C
a5
## [,1] [,2]
## [1,] 1 2
## [2,]
## [3,] -1 1
# 6. 4A- 3B
a6 <- 4 *A - 3 *B
```

```
## [,1] [,2] [,3]
## [1,] -5 10 -15
## [2,] 30 30 -15
# 7. At + alpha C
a7 <- t(A)+ alpha * C
a7
## [,1] [,2]
## [1,] 9 22
## [2,] 20 3
## [3,] -11 8
# 8. A+B-Ct
a8 <- A+B-t(C)
a8
## [,1] [,2] [,3]
## [1,] 2 2 0
## [2,] 0 -3 3
# 9. 4A+2B-5Ct
a9 < -4*A+2*B-5*t(C)
a9
## [,1] [,2] [,3]
## [1,] 0 0 0
## [2,] 0 0 0
```