

Wooldridge

Matrices

```
library(Matrix)
A <- matrix( c(2,-4,-1,5,7,0), nrow=2)
B <- matrix( c(2,1,0,3,-1,5), nrow=2)
```

```
print(A)
```

```
      [,1] [,2] [,3]
[1,]     2  -1    7
[2,]    -4   5    0
```

```
print(B)
```

```
      [,1] [,2] [,3]
[1,]     2   0  -1
[2,]     1   3   5
```

```
A*B #Esto multiplica elemento por elemento
```

```
      [,1] [,2] [,3]
[1,]     4   0  -7
[2,]    -4  15   0
```

```
C <- t(B) #Transpongo
print(C)
```

```

      [,1] [,2]
[1,]    2    1
[2,]    0    3
[3,]   -1    5

```

```
D <- A %*% C #Multiplicación de matrices posta
```

```
solve(D) #Inversa
```

```

      [,1] [,2]
[1,] 0.0460251 -0.1422594
[2,] 0.0334728 -0.0125523

```

```
det(D)
```

```
[1] 239
```

```

a <- c(1,3)
b <- c(3,9)
E <- cbind(a,b)
det(E)

```

```
[1] 0
```