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```
# matrix inversion
> matA
[,1] [,2]
[1,] 1 2
[2,] 3 4
> matA.inv = solve(matA)
> matA.inv
[,1][,2]
[1,] -2.0 1.0
[2,] 1.5 -0.5
> matA%*%matA.inv
[,1] [,2]
[1,] 1 1.110223e-16
[2,] 0 1.000000e+00
> matA.inv%*%matA
           [,1][,2]
                  0
[1,] 1.000000e+00
[2,] 1.110223e-16
                   1
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```