Assignment 1

- 1. What is the correct command to install the package splines in R console?
- 2. The correct command to load the library MASS in R console is
- 3. The output of the R command $c(1,2,3,4)^c(1,2)$ is
- 4. The output of the R command $(c(1,3,3,2)**c(3,1,1,3))^c(2,1,2,1)+c(4,3,2,1)$ is
- 5. If the output of the R command

 min(c(4,-2,3,-1)) **max(c(?,1,-3,-1)) is 4 then the digit in place of ?

 should be
- 6. The output of the R command $(\min(c(5,4,3,1)) \max(c(-4,-2,0.75,-1))) **c(-1,-2,-0.5)$ is
- 7. The output of the R command sqrt(abs(c(4,-9,16,-36))) abs(sqrt(c(4,-9,16,-36))) is
- 8. If the output of the R command sqrt(c(36,16,9,4)) abs(c(-6,-3,4,2)) / sqrt(c(36,9,16,4)) max(c(2,5,-1,?)) is 0
 -2 -3 -4 then the digit in place of ? should be
- 9. If x is a matrix specified by the R command x = matrix(nrow=2, ncol=2, data=c(-1,2,-3,4)) then the output of R command t(x) is
- 10. If x is a matrix specified by the R command x = matrix(nrow=3, ncol=3,data=c(1,8,2,1,5,4,3,9,6), byrow=TRUE), then the output of the R command x%%t(x) is
- 11. If x is a matrix specified by the R command x = matrix(nrow=3,
 ncol=3,data=9:1, byrow=T), then the outputs of the R commands
 x[2:3,2:3] and x[1,] are

12. The outcome of the following set of commands is x =

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matrix(nrow=2,ncol=4, data=18:11)
y = 3*x-10
y[2,4]
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- 13. The output of the R command $c(1,3,2,2)^{4}c(2,3,2)$ is
- 14. The output of the R command $c(3,4,5,6,7)**c(2,3) (c(1,2,3,4,5)^c(3,1))$ is
- 15. If the output of the R command (5/2*c(4,4,6,?,6))**2 is 100 100 225 25 225 then the digit in place of ? is