Mock Exam 2

> This part of the exam contains 6 questions for the total of 20 points.

1. (3 points) Write down the code to compute the following mathematical statement in R:

   $$1 + \ln(10)$$

2. (2 points) Write down the code to open the help documentation of the function `floor` in R.

3. (3 points) Write down the R-code that assigns a vector with the elements `"Jan"`, `"Feb"`, and `"Mar"` to an object with the name `first_quarter`.

4. (3 points) Assume that the following code is run in R. What is printed to the console after executing line 6?

```
x <- 1
y <- -1
if( -x == y & -y == x ){
  x <- x + y
}else{x <- 10}
x   # line 6
```

5. (4 points) Assume that the following code is run in R. What is printed to the console after executing line 8 ?

```
n <- 5
i <- 1
x <- 1
while(i <= n){
  x <- x + i
  i <- i + 1
}
x   # line 8
```

6. (5 points) Write an R-function with the name `equality`. The function should have two input arguments. It should return `TRUE` if the two inputs are equal; it should return `FALSE` if the inputs are unequal.

End of exam