

## Quiz #2

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Create an R-script or an R-notebook which prints out the answers to the following problems. All of your work and calculations **must** be done in R.

### Arithmetic (1 point each)

#### Problem 1.

Divide 792 by 11.

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792/11  
## [1] 72
```

#### Problem 2.

Find the square root of  $\pi$

#### Problem 3.

Calculate  $e^2$

#### Problem 4.

Find the fourth root of 256.

#### Problem 5.

Calculate the natural logarithm of 2.

### Variables and vectors

#### Problem 6. (2 points)

Assign the value 3 to variable **a** and the value 7 to variable **b**; print out their product

**Problem 7. (3 points)**

Set the vector  $\mathbf{v}$  to be the integers between -2 and 4 (inclusive); set the vector  $\mathbf{w}$  to be the first 7 natural numbers; what do you get when you multiply  $\mathbf{v}$  by  $\mathbf{w}$ ?

**Loops****Problem 8. (5 points)**

Write and execute a chunk of code which calculates and prints out the sum of squares of the first  $n$  natural numbers for  $n = 1, 2, \dots, 25$ .