**PEOPLE’S DEMOCRATIC REPUBLIC OF ALGERIA**

**MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH**

**Badji Mokhtar-Annaba University**

**Department of Mathematics**

**Master 1: Exam**

**Year : 2020/2021**

**Exercise n° 1 : Write only in mathematical symbols**

1. **Limit** $x$ **to the power one over** $x$ **when** $x$ **tends to infinity equals one.**
2. **The right half-open interval from**$a$**to**$b$**is the**[**subset**](https://proofwiki.org/wiki/Definition%3ASubset) **of** $x$ **such that** $x$ **is greater than or equal to** $a$ **and less than** $b.$
3. **Six squared plus seven cubed minus two to the power nine equals negative one hundred thirty three.**
4. **The absolute value of** $a$ **minus** $b$ **is greater than or equal to the absolute value of the absolute value of** $a$ **minus the absolute value of** $b.$
5. **Two thirds plus one half minus one sixth plus five quarters minus one eighth equals two point one two five.**

**Exercise n° 2 : Fill in the gaps by the following words : number, dimensions,** [**multiplication**](https://en.wikipedia.org/wiki/Matrix_%28mathematics%29#Matrix_multiplication)**, while, array**

**Matrix**

 **A matrix is a rectangular array of [numbers](https://en.wikipedia.org/wiki/Number%22%20%5Co%20%22Number) for which operations such as**[**addition**](https://en.wikipedia.org/wiki/Matrix_%28mathematics%29#Basic_operations)**and --------- are defined. Most commonly, a matrix over a [field](https://en.wikipedia.org/wiki/Field_%28mathematics%29%22%20%5Co%20%22Field%20%28mathematics%29)**$F$**is a rectangular --------- of scalars, each of which is a member of**$F$**.**

 **The size of a matrix is defined by the --------- of rows and columns that it contains. A matrix with**$m$**rows and**$n$**columns is called an**$m×n$**matrix, or**$m-$**by**$-n$**matrix, ---------**$m$**and**$n$**are called its ---------.**

{\displaystyle \int \_{a}^{b}f(x)\,dx.}***-Good Luck-***

**Remark : You must send me the answer before Midday (12H) using my email : b\_hakima2000@yahoo.fr**