MATHEMATICS I-Part A

October, 2, 2019

Classwork #2

MATRICOLA $\ldots\ldots\ldots\ldots\ldots$ Lastname $\ldots\ldots\ldots\ldots\ldots$ Name $\ldots\ldots\ldots\ldots\ldots$

1) *(1 point)* Complete the table indicating, for each set, max/min points (if they exist) and sup/inf.

Set	Max	Min	Sup	Inf
$(0,1) \cup \left\{\frac{3}{2}\right\}$				
$[0,1] \cup \left\{-\frac{3}{2}\right\}$				

2) *(1 point)* Compute limit, isolated, interior, exterior and boundary points of the set

$$E = \left\{\frac{2}{n} \ \middle|\ n \in \mathbb{N}, n > 0\right\}.$$

Establish if the set is open/closed or neither open nor closed. **Motivate your answers**.

3) *(1 point)* Given the set $A = \{1, 2, 3\}$ and the set $B = \{0, 3\}$ compute the set operations

$$A \setminus B, \quad A \cap B.$$