Morales

MA 538

Fall 2021

HOMEWORK 2

4. Let $(X, \mathscr{T})$ be a topological space and let B be a subset of X. Show

$$\overline{B} = \mathbb{C}[int(\mathbb{C}B)].$$

5. Let $(X, \mathscr{T})$ be a topological space and let A be a subset of X. Show

$$\partial A = \overline{A} \setminus int(A).$$

6. Let $(X, \mathscr{T})$ be a topological space and let A be a subset of X. Show that $int(A)$ is open.

DUE : September 9, 2021