0.1 Boundries and interiors

The boundry of the subset S of a topology is the intersection with the closure of S with the closure of the complement of S.

So the boundry of both $(0, 1)$ and $[0, 1]$ are 0 and 1.

The interior of S is S without the boundry.

So the interior of $(0, 1)$ and $[0, 1]$ are both $(0, 1)$.