Name: $\qquad$ Score (Out of 5 points):

1. (2 points) $X=\{a, b, c\}, \mathcal{T}=\{\varnothing,\{c\},\{b, c\},\{a, b, c\}\}, A=\{a, c\}$.
$\operatorname{Int}(A)=\square \quad \bar{A}=\square \quad \partial A=\square \quad A^{\prime}=\square$
2. (3 points) Let $A$ be a subset of a topological space $X$. Prove that $X \backslash \bar{A}=\operatorname{Int}(X \backslash A)$.
