Name: ______ Score (Out of 5 points):

1. (2 points)
$$X = \{a, b, c\}, \mathcal{T} = \{\varnothing, \{c\}, \{b, c\}, \{a, b, c\}\}, A = \{a, c\}.$$

$$\operatorname{Int}(A) = \underline{\hspace{1cm}} \partial A = \underline{\hspace{1cm}} A' = \underline{\hspace{1cm}}$$

2. (3 points) Let A be a subset of a topological space X. Prove that $X \setminus \overline{A} = \operatorname{Int}(X \setminus A)$.