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Name:	Score	(Out of 8	points):

- 1. Let (X,d) be a metric space. On this quiz we will prove two equivalent characterizations of the closure \overline{A} of a subset $A \subseteq X$.
 - (a) (4 points) Let $A \subseteq X$. Let A' denote the set of all accumulation pointst of A. Prove that

$$\overline{A} = A \cup A'$$
.

(b) (4 points) Let $A \subseteq X$. Prove that \overline{A} is equal to the intersection of all closed subsets containing A.