Name:	Score (Out of 5	points)	١:
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1. (4 points) Let (X, d) be a metric space, and let $A \subseteq X$. Show that, if $x \in \overline{A}$, then there exists a sequence of points in A converging to x.

2. (1 point) If the following statement is true, write True. Otherwise, state a counterexample. No justification needed.

Let X be a metric space, and let $A, B \subseteq X$. Then $Int(A \cup B) = Int(A) \cup Int(B)$.