

**CSC240 Winter 2021 Midterm Assessment Question 2**  
YOUR NAME and STUDENT NUMBER

2. (10 marks) Consider the predicate

$$(\forall x \in D.[R(x) \text{ IFF } \forall y \in D.A(x, y)]) \text{ IMPLIES } \forall y \in D.(R(y) \text{ IMPLIES } A(x, y)).$$

Derive a logically equivalent predicate in Prenex Normal Form. Say what transformation(s) you are using at each step of your derivation.

**Solution:**

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