

**CSC240 Winter 2021 Midterm Assessment Question 1**  
YOUR NAME and STUDENT NUMBER

1. (8 marks) Consider the predicate

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

- (a) Give an interpretation with  $D = \{1, 2\}$  that makes this predicate true. Justify your answer.

**Solution:**

- (b) Give an interpretation with  $D = \{1, 2\}$  that makes this predicate false. Justify your answer.

**Solution:**

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