

Concordia University Department of Computer Science and Software Engineering

SOEN 331 Section S: Formal Methods
for Software Engineering

Assignment 1

Mohammad Ali Zahir - 40077619

Marwa Khalid - 40155098

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1 Problem 1: Predicate Logic 1 (10 pts)

1.1 Description:

In the domain of all people in the room, consider the predicate $received_request(a,b)$ that is interpreted as

"[person] a has received a request from [person] b to connect on some social platform"

1. How are the following two expressions translated into plain English? Are the two expressions logically equivalent?

- $\forall a \exists b \text{ received_request}(a,b)$.