Logic and Foundations I, Autumn 2023

Homework No.4
Due: 2023.10.24
Name:

Problem 1
Prove (prop. logic) $\vdash \varphi \iff \text{BA} \vdash \varphi = 1$, where BA is short for Boolean algebra.

Solution:

Problem 2
Show the Ackermann function is recursive.
Requirement: rather than using the Kleene normal form theorem, use the idea of its proof.
<u>Solution:</u>