

York University

Faculty of Science and Engineering
MATH 1090A. Problem Set #4
Posted November 22, 2011

Due: December 6, 2011; 2:00pm, in the course box

Annotation is required!

(5 MARKS/Each) **Do the following problems from the text.**

- 1. Section 6.6:** Numbers 12, 13, 14, 17, 25, 28
- 2.** Prove by the method of eliminating \exists :
 $\vdash (\exists x)(A \wedge B) \rightarrow (\exists x)(A \rightarrow C \rightarrow B)$
No other method is acceptable.
- 3. Section 8.3:** Numbers 2, 8
- 4.** Let ϕ be a predicate of arity 2. Prove or disprove:
 $\phi(x, y) \vdash \phi(y, x)$