Problem Set #4

York University

Lassonde School of Engineering EECS MATH 1090A. Problem Set #4 Posted November 20, 2015

Due: December 7, 2015; 2:00pm, in the course box

 $\frac{\text{Annotation is required!}}{(5 \text{ MARKS/Each}) \text{ Do the following problems from the text.}}$

- 1. Section 6.6: Numbers 1, 17, 19, 22, 25, 28
- **2.** Prove by the method of eliminating \exists : $\vdash (\exists x)(A \land B) \rightarrow (\exists x)(A \lor C \rightarrow B)$

No other method is acceptable.

- **3. Section 8.3:** Numbers 3, 5
- **4.** Let ϕ be a predicate of arity 2. Prove or disprove: $\phi(x, y) \vdash \phi(y, x)$