## York University

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

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

Annotation is required!
(5 MARKS/Each) 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 $\exists$ :
$\vdash(\exists x)(A \wedge B) \rightarrow(\exists x)(A \vee C \rightarrow B)$
No other method is acceptable.
3. Section 8.3: Numbers 3,5
4. Let $\phi$ be a predicate of arity 2 . Prove or disprove:

$$
\phi(x, y) \vdash \phi(y, x)
$$

