

5.1 Classify the following noun phrases / quantifiers w.r.t. their monotonicity properties:

- (a) exactly  $n$   $N$
- (b) at least  $n$   $N$
- (c) at most  $n$   $N$
- (d) less than half of the  $N$
- (e) Mary
- (f) some but not all  $N$

5.2 Try to show that the disjunction of two upward monotonic quantifiers is an upward monotonic quantifier.

5.3 Try to show that the external negation of an upward monotonic quantifier is a downward monotonic quantifier.

To be turned in Thursday, 2010-05-27.