

## Problem Set 3 (for Lecture 5) Solutions

April 10, 2017

A1.  $(\exists t)[W(t)]$

- (a) No
- (b) Yes
- (c) No
- (d) No
- (e) Yes
- (f) No

A2.  $(\forall t)[W(t)]$

- (a) Yes
- (b) No
- (c) Yes
- (d) No
- (e) Yes
- (f) No

A3.

- (a) No
- (b) No
- (c) No
- (d) Yes
- (e) No
- (f) No

A4. (e)

A5. (c)

A6. 12 pts. Logical Correctness (4 pts) + Clarity (2 pts) + Opening (4 pts) + Stating the conclusion (0 pts) + Reasons (0 pts) + Overall valuation (2 pts).