

# Assignment #5

## CIS 427/527

Group 2

February 20, 2016

### 2.2.1

Which of the following strings are formulas in predicate logic?

#### Solution

(a),(b),(f),(g) are formulas.

(c) isn't, as  $f(m)$  is a term.

(d) isn't, as  $B$  is expecting two terms, yet  $B(m, x)$  is a formula.

(e) isn't, as  $B(m)$  doesn't have enough arguments.

(h) isn't, as  $B(x)$  doesn't have enough arguments.

### 2.5.3

#### Solution

### 2.5.11

#### Solution

### 2.6.1

#### Solution

### 2.6.2

#### Solution

### 2.6.3

#### Solution

### 2.7.5

#### Solution