

Math 3000, Homework assignment #3 (second part)

- Read section 3.4 through Practice 3.4.9 and section 2.1 from Definition 2.1.16 until the end.
- Do the following problems from Section 1.2: 1,2,4,5a-d,8,10,11bdf,13,16. Turn in 4,8,10 and 16.
- Look up the Abraham Lincoln quote at

<http://www.brainyquote.com/quotes/quotes/a/abrahamlin110340.html>

Then do the following:

- (a) Let $p(x, t)$ be the statement: “you can fool x at time t ”. Assume the universe for x is the set of all people and the universe for t is the set of all times. Write the Lincoln quote in terms of $p(x, t)$ using appropriate quantifiers and logical connectives.
- (b) Formally negate the statement from (a).
- (c) Write the negation in plain English, as precisely as possible!