Assignment #2
Due Tuesday, July 16

1. For the axioms at the beginning Section 4.3 of my notes:

   (a) Show that the system is consistent by finding a model.

   (b) Show that the system is independent.

2. For each model of Sections 5.3.2–5.3.5 of my notes

   (a) Does the model satisfy Axiom I-1?

   (b) Does the model satisfy Axiom P-1?

3. Exercise 4.5.3 of my notes.

4. Exercise 4.5.4 of my notes.

5. Exercise 5.2.2 of my notes.

6. Find a general equation $ax + by + c = 0$ for the line containing two distinct points (x_1, y_1) and (x_2, y_2).