1. (50 pts.) Do Exercise 8.9.

2. (50 pts.) Do Exercise 8.10.

3. (100 pts. shared extra credit) Shared extra credit means that the 100 pts. extra credit will be divided between the best answers.

   Use Prover9 to prove that “Joe is not a surgeon” from sentences d and g. Sentences d and g and “Joe is not a surgeon” must be correctly represented in the vocabulary of Exercise 8.10 to obtain extra credit; however, you are allowed to create Skolem functions and constants.