CSE 311: Foundations of Computing I
Assignment #1
due: Fri, Apr 8, 1:30pm

1. *(6 points)* Section 1.1, exercise 8, parts c, e, f
2. *(12 points)* Section 1.1, exercise 10, all parts
3. *(9 points)* Section 1.1, exercise 18, parts a, b, c
4. *(12 points)* Section 1.1, exercise 30, parts a, b, e, f
5. *(6 points)* Section 1.1, exercise 50
6. *(6 points)* Section 1.2, exercise 8, parts c,d
7. *(8 points)* Section 1.2, exercise 14
8. *(4 points)* Section 1.2, exercise 28. For this exercise and the next one, it is easiest to use a truth table.
9. *(6 points)* Section 1.2, exercise 32
10. *(9 points)* Section 1.3, exercise 10, parts a,b,e
11. *(6 points)* Section 1.3, exercise 32, parts d,e. For example, to do part a, define a predicate $P(x)$ to mean that dog x has fleas. Then the original statement would be $\forall x(P(x))$, the negation would be $\exists x(\neg P(x))$ and the English sentence would be "There exists a dog without fleas."
12. *(6 points)* Section 1.3, exercise 36
13. *(10 points)* Section 1.4, exercise 8, all parts