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