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LPN 1.3 Exercises

1.1

1. Atom
2. Variable
3. Atom
4. Variable
5. Atom
6. Atom
7. Neither
8. Atom
9. Variable
10. Atom

1.2

1. Complex term/2
2. Atom
3. Variable
4. Complex term/1
5. Complex term/2
6. Complex term/2
7. Variable
8. Not a term
9. Complex term/2
10. Not a term

1.3

1. There are 3 facts, 4 rules, 7 clauses, and 7 predicates.
2. The rule heads are person(X) whose goal is man(X); woman(X), loves(X,Y) whose goal is father(X,Y), father Y,Z) whose goal is man(Y), son(Z,Y), and father(Y,Z) again whose goal this time is man(Y), daughter(Z,Y).

1.4

1. killer(butch).
2. married(mia, marsellus).
3. dead(zed).
4. kills(marsellus,X) :- footMassage(X, mia).
5. loves(mia, X) :- goodDancer(X).
6. eats(jules, X) :- nutritious(X); tasty(X).

1.5

1. Yes
2. No
3. No
4. No
5. Yes
6. No
7. No