

## 1.1:

1. atom
2. var
3. atom
4. var
5. atom
6. atom
7. neither
8. atom
9. var
10. atom

## ### 1.2

1. complex term loves arity2
2. atom
3. none
4. complex term boxer arity1
5. complex term and arity2
6. complex term and arity2
7. neither
8. neither
9. neither
10. neither

## 1.3

facts: 3

rules: 4

clauses: 7

predicates: 7

Head Goal

person(X) man(X), woman(X)

loves(X, Y) father(X, Y)

father(Y, Z) man(Y), son(Z, Y)

father(Y, Z) man(Y), daughter(Z, Y)

## 1.4

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

## 1.5

1. True
2. False (err)
3. False (err)
4. False (err)
5. True
6.  $X = \text{ron} ; X = \text{harry}$
7. False (err)