Problem 1

1 The Riemann Hypothesis is right
   Proposition,   either true or false

2 12 is a prime number
   Proposition   false

3 x+y = 6
   Not propositon

4 What a beautiful flower!
   Not propositon

5 3-1
   Not propositon

6 Tom stays at home on weekends
   Propositon   either true or false

7 This sentence is wrong
   Propositon   false

Problem 2
1 cheese is gone →Tome eats it or Jerry eats it
2 it rains → Tom will go home

Problem 3
1 Tom is not a cat and Tom doesn't like eating fish
2 If Tom is a cat , Tom likes eating fish
3 Tom is not a cat and Tom doesn't like eating fish

Problem 4

P	Q	P→Q	(!Q)→(!P)	(!P)orQ	(!P) →(!Q)
True	True	True	True	True	True
True	False	False	False	False	True
False	False	True	True	True	True
False	True	True	True	True	False

P	Q	R	P→Q	Q→R	P→R	(Q→R)→(P→R)	(P→Q)→((Q→R)→(P→R))
True	True	True	True	True	True	True	True
True	True	False	True	False	False	True	True
True	False	True	False	True	True	True	True
True	False	False	False	True	False	False	True
False	True	Ture	True	True	Ture	True	Ture
False	True	False	True	False	True	True	True
False	False	True	True	True	True	True	True
False	False	False	True	True	True	True	True