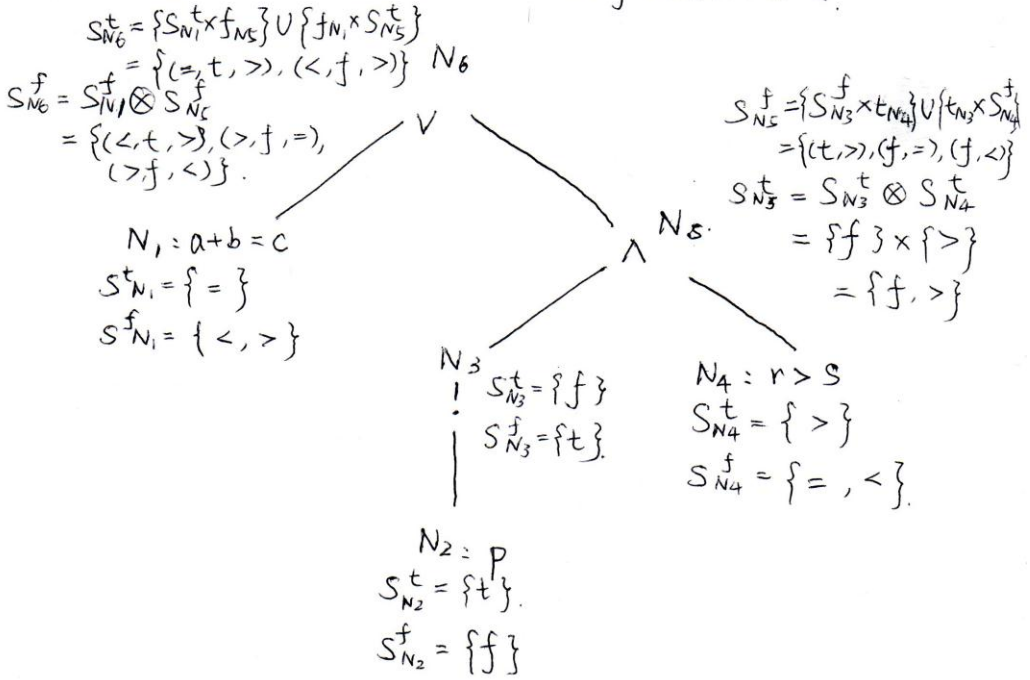
Homework # 1

(1) We have predicate $(a+b=c) \vee (!P \wedge (r > s))$

So, the decision tree can be defined as :



$\therefore S_{N6} = \{(<, t, >), (>, f, =), (>, f, <), (=, t, >), (<, f, >)\}$

(2) The test set can be defined as.

Test case No	a+b=c	P	r > s	Test cases.
t_1	<	t	>	a=1, b=1, c=3, P=true, r=2, s=0.
t_2	>	f	=	a=1, b=1, c=1, P=false, r=0, s=0.
t_3	>	f	<	a=1, b=1, c=1, P=false, r=0, s=1
t_4	=	t	>	a=1, b=1, c=2, P=true, r=2, s=1
t_5	<	f	>	a=1, b=0, c=2, P=false, r=2, s=0

* Note that the answer is not unique.