Homework 2.

1. (3.1 a)

(a,(a,a))

(a, ((a,a), (a,a)))



2. (3.2 a)

 $S \Rightarrow aSbS \Rightarrow abS \Rightarrow abasbS \Rightarrow ababS \Rightarrow abab$

S => asbs => absasbs => ababs => abab

3. (3.10)

First: First (D) = {int, real } = First (T)

First (b) = lid3

First (R) = {, , & }

Follow: Follow (D) = {\$3

Follow(T) = Eid 3

Follow(1) = {\$}

Follow (R) = {\$}

新 络名	int	real	id	,	\$
D	D→T L	D > TL			
T	Toint	T-> real			
L			Lide		
R				R→, id R	R→ 2

4(3.11)

First : $F_{irst}(S) = \{a, b, \epsilon\}$

First (A) = {a, b}

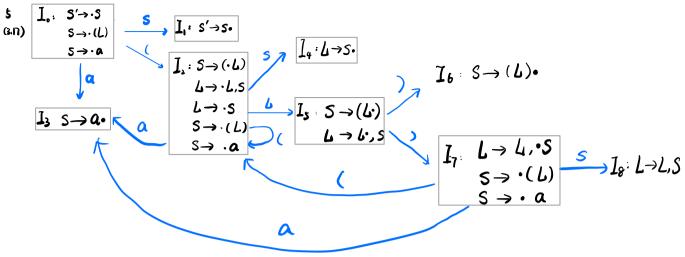
First (B) = Ea. b3

Follow: Follow(S)= {\$}

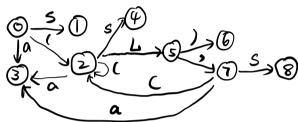
Follow(A) = {\$, a, b }

Follow(B) = {\$, a, b 3

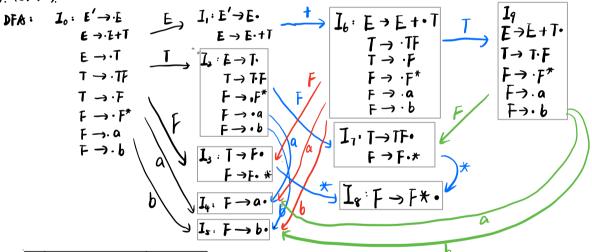
排 络名	a	Ь	\$	
S	S-aBS	S-bas	S>E	
B	Aza	S->bAA		
В	B->aBB	Ba		







6. (3.194)



7. F → b

5	ACTION				6070			
	a	b	†	*	\$	E	T	F
0	Sy	Ss				5,	52	S
ı			Se		ALC			
Z	Sp	22	٢٧		T>			5
3	ľψ	rφ	Υç	S ₈	Γψ			
4	C 6		r ₆	Y6	16			
5	n	r_1	r_7	5	r ₇			
6	54	55			·		Ss	S
7	r ₃	Y 3	Υ3	S	r ₃		•	Ĭ
8	rs	rs	rs	15				
9	54	Sz	r		r_{i}			S

1.
$$E \rightarrow E+T$$

2. $E \rightarrow T$

3. $T \rightarrow TF$

4. $T \rightarrow F$

5. $F \rightarrow F^*$

6. $F \rightarrow a$

Follow(b) = {\$, + 3}

Follow(J) = {a,b,t,\$}

Follow(F) = {*,a,b,t,\$}

Follow(F) = {*,a,b,t,\$}