

2) a) w (a, (a, a)) Right most derivations S -> (L,5) S -> (L,(L)) S -> (L, (L,S)) S -> (L, (L, a)) S -> (L, (s,a)) $S \rightarrow (L,(\alpha,\alpha))$ $S \rightarrow (S,(\alpha,\alpha))$ $S \rightarrow (\alpha,(\alpha,\alpha))$ Parse Tree a

2) b) (a, ((a,a); (a,a))) Right most des viations S-> (L) S -> (4,5) 5-> (4(4)) S -> (L, (4,5)) S-> (4, (4, (4, a))) S-> (4,4,(5,a)) S -5 (L, L, (a, a))) S-> (4,(s,(a,a))) S -> (L, (4,S), (a,a))) s -> (L, ((L, a), (a, a))) S -> (L, ((S,a), (a,a))) S -> (L, ((a,a), (a,a))) S -> (S, ((a,a), (a,a))) $S \rightarrow (a, ((a,a), (a,a)))$

3) E-> num T T -> * numT/E E () if (input = 'num') input ++; TC); 7() if (input = = 1 * 1) input ++; if (input = = 'num') Input ++; TC); else return