Team Assignment 5: Chapter 7. PDA & CFL Due Thursday, February 25

N	James:				Section:	Score:	$/50 \mathrm{\ pts}$
1.	[15 pts] Convert the follostack.	owing CFG to	o a PDA	that accepts	the same	language	by empty
		$S \rightarrow 0S1 \mid A$	1,	$A \rightarrow 1A0 \mid S$	$' \mid \lambda$		
2.	[15 pts] Give the state of acceptance by empty state (Problem 5, P. 248)	liagram of a ck. Explain th	PDA M the role of t	that accepts the stack sym	$\{ a^{2i}b^{i+j} \mid \text{bols in the} \}$	$\mid 0 \leq j \leq$ e computa	$\{i\}$ with tion of M.
3.	(Problem 19, P.250) (a) [10 pts] Prove that	the language I	$L_1 = \{ a^i e$	$b^ic^jd^j\mid i,j\geq$	0 } is cont	text-free.	

(b) [10 pts] Prove that the language $L_2=\{\ a^jb^ic^id^k\mid i,j,k\geq 0\ \}$ is context-free.