12-1/ PDA => CFG Assume: F = {8f3 input: (a, E, M, 80, S, F) output - (V, E, R, S) $V = Q \times Q \qquad \xi = \xi \qquad \xi = (g_0, g_{\xi})$ (80,9f) => * ~ iff [90] w >> [8+] (g;,g\$) => w iff u[g;]wv > "u[g;]v Assume on PDA: only pushes xor pops a, E = C push a, b => E y pop a, E-> C E, C-> E a, E -> E ignore a, b > c replace Assume that the stack is fully emphied on accept F = 80,1, \$3 YpeQ (P,P) -> E u[p] &v => *u[p] Ev AP, 8, r + Q ER (P,r) > (P,g)(g,r) u[p]xyv > u[8]yv > u[r]v $(r,+) \in S(P,\alpha,\varepsilon)$ uplaxbr $(q, \varepsilon) \in S(s, b, +)$ -> u+[r]xbv $(p,g) \rightarrow a (r,s) b \in R$ -> 4+[5] bv

7 4 [8] V

