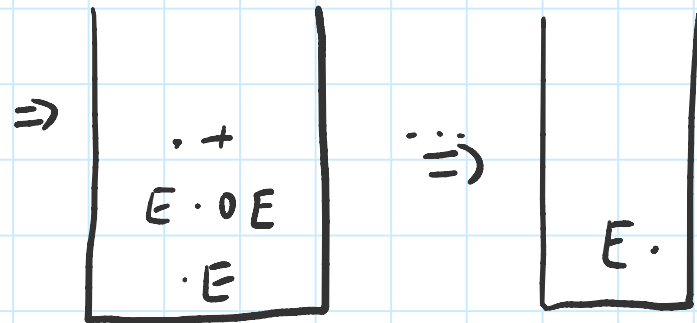
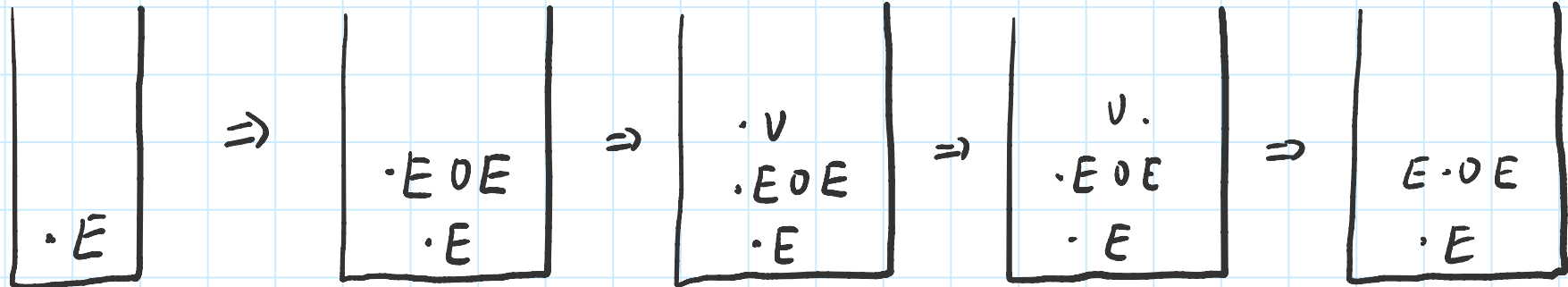


Week 11

Thursday, May 9, 2019

7:54 AM

$v + d$



$S \rightarrow 0S \mid A$

$A \rightarrow 1A0 \mid S \mid \epsilon$

$$A \rightarrow 1A0 \mid S \mid \varepsilon$$

$$P = (\{q\}, \{0, 1\}, \{0, 1, A, S\}, \delta, q, S)$$

$$1. \delta(q, \varepsilon, S) = \{(q, 0S1), (q, A)\}$$

$$2. \delta(q, \varepsilon, A) = \{(q, 1A0), (q, S), (q, \varepsilon)\}$$

$$3. \delta(q, 0, 0) = \delta(q, 1, 1) = \{(q, \varepsilon)\}$$

$$A \xRightarrow{*} w = w_1 w_2 \dots w_m$$

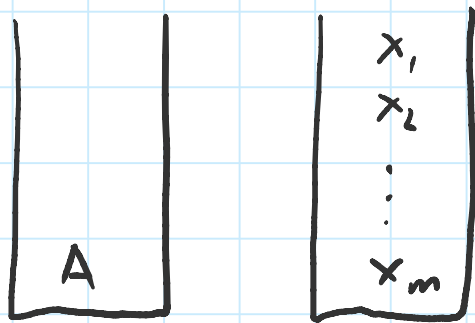
$$A \rightarrow x_1 x_2 \dots x_m$$

$$w_1 w_2 \dots w_m$$

$$x_1 \xRightarrow{*} w_1, x_2 \xRightarrow{*} w_2$$

$$(q, w_1, x_1) \xRightarrow{*} (q, \varepsilon, \varepsilon)$$

$$A \rightarrow x_1 x_2 \dots x_m$$



$$(q, w, A) = (q, w_1 w_2 \dots w_m, A) \vdash (q, w_1 \dots w_m, x_1, \dots, x_m)$$

$$\vdash^* (q, w_2 \dots w_m, x_2 \dots x_m) \vdash^* \dots \vdash^* (q, \varepsilon, \varepsilon)$$

$$S \rightarrow [q_0 z_0 p]$$

$$(q, x_1 \dots x_k) \in \delta(p, a, x)$$

$$[p \times p_k] \rightarrow a [q \ x_1 \ p_1] [p_1 \ x_2 \ p_2] \dots [p_{k-1} \ x_k \ p_k]$$