Arith: A simple language grammed ?

exelere

valued Expressions but not  $\binom{2+3}{2+3} * \binom{8-4}{2}$ Dynamic Semantics of Aith Rules to Emplain how to evaluate Expressions in Anth Premises Premises .... Premien "Semantic rule"  $e_1 \rightarrow V_1$   $e_2 \rightarrow V_2$   $V = V_1 + V_2$   $e_1 + e_2 \rightarrow V$   $e_1 + e_2 \rightarrow V$   $e_1 + e_2 \rightarrow V$   $e_2 \rightarrow V_2 \qquad V = V_1 + V_2$   $e_1 \rightarrow V_1 \qquad e_2 \rightarrow V_2 \qquad V = V_1 + V_2$   $e_1 \rightarrow V_1 \qquad e_2 \rightarrow V_2 \qquad V = V_1 + V_2$   $e_1 \rightarrow V_1 \qquad e_2 \rightarrow V_2 \qquad V = V_1 + V_2$   $e_1 \rightarrow V_1 \qquad e_2 \rightarrow V_2 \qquad V = V_1 + V_2$   $e_1 \rightarrow V_1 \qquad e_2 \rightarrow V_2 \qquad V = V_1 + V_2$   $e_1 \rightarrow V_1 \qquad e_2 \rightarrow V_2 \qquad V = V_1 + V_2$   $e_2 \rightarrow V_2 \qquad V = V_1 + V_2 \qquad e_2 \rightarrow V_2 \qquad V = V_1 + V_2 \qquad e_2 \rightarrow V_2 \qquad e_3 \rightarrow V_3 \qquad e_4 \rightarrow V_4 \qquad e_4 \rightarrow V_4 \qquad e_4 \rightarrow V_4 \qquad e_5 \rightarrow V_4 \qquad e_6 \rightarrow V_6 \rightarrow$ 

c-lik

2+ Vaniable

Program P ::= S

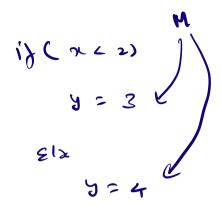
Statement S: = X = @ | S; S

M  $\begin{array}{l}
\chi = 1; \\
y = 2; \\
\chi = 2 + y; \\
y = 2 - y; \\
\chi = 2 - y;
\end{array}$ Supplied Gradian in C-lik

Dynamie Semantics y Eliti

M: Vm -> Value

MC > V (M, Cx:=4) > (v, Mc2 > V])



e:= m | e + c | e + e | e - e | e nel valure cuc | rel b | e | thun e Ele e [i] (2+2) < 8 the  $3 \times 2 - 5$   $c_1$   $c_2$ e, strue cr slx s3 -> V