









RECURSIVELY DEFINING LANGUAGE
การบรรยายแบบว <del>นซ้ำ</del>
นิยายของภาษา
POLYNOMIAL language
The set is defined by these four rules: Rule1: Any number is in POLYNOMIAL Rule2: Any variable x is in POLYNOMIAL. Rule3: if x,y are in POLYNOMIAL, then so is x+y, x-y, x×y and (x). Rule4: The only elements in the set POLYNOMIAL are those that can be produced from the three rules above.
PROBLEM: Show that $3x^2+2x-5$ is in POLYNOMIAL.
Rule1: 2, 3, 5 are in POLYNOMIAL, Rule2: x is in POLYNOMIAL, Rule3: $3x$ , $2x$ are in POLYNOMIAL, Rule3: $3xx$ is in POLYNOMIAL, Rule3: $3xxx+2x$ , $3x^2+2x-5$ are in POLYNOMIAL. QED.



