

# Poly stream test

$$\begin{aligned}
 &3x^3 \\
 &3x^3 + 2x^2 \\
 &3(2x)^3 + 2(2x)^2 \\
 &3(2x)^3 + 2(2x)^2 + x \\
 &3(4x)^3 + 2(4x)^2 + 2x \\
 &2(3(4x)^3 + 2(4x)^2 + 2x) \\
 &2(3(4x)^3 + 2(4x)^2 + 2x) + x
 \end{aligned}$$

## test 1

$$\begin{aligned}
 &3x^3 \\
 &3(2x)^3 \\
 P_1 \quad &2(3(2x)^3) \\
 &2(3(2x)^3) + x \\
 &2(3(2x)^3) + x + 2x^2 \\
 &2(3(2x)^3) + 2x^2 \\
 &2(3(2x)^3) + 2x^2 + x
 \end{aligned}$$

$$\begin{aligned}
 P_2 \quad &2x^2 \\
 &2x^2 + x \\
 &0
 \end{aligned}$$

$$\begin{aligned}
 &3x^3 \\
 P_3 \quad &3(2x)^3 \\
 &2(3(2x)^3) \\
 &2(3(2x)^3) + x
 \end{aligned}$$

$$2(3(2x)^3) + x + 2(3(2x)^3) + 2x^2 + x \quad (P_3 \text{ add } P_1)$$

# Polynom

$P_i$	$m_i$	$m_2$
$3x^3$	$3x^3$	
$3x^3$	$ax^2$	
$3x^3 + ax^2$	$ax^2$	
$3x^4 + ax^3$		$x$
$3x^4 + ax^3$		$2x^2$

$P_3$

$$12x^3 + 27x^2$$

$P_4$

$$12x^3 + 27x^2 + 3x^4 + ax^3$$