POLYNOMIEN TULO

I MONOMI x MONOMI

$$5x \cdot 3x^6 = 5 \cdot 3 \cdot x^1 \cdot x^6 = 15\, x^{1+6} = 15x^7$$

II MONOMI x BINOMI

$$7x \cdot (5x^2 + 3x^8) = 7x \cdot 5x^2 + 7x \cdot 3x^8$$

$$= 7 \cdot 5 \cdot x^1 \cdot x^2 + 7 \cdot 3 \cdot x^1 \cdot x^8 = 35x^3 + 21x^9$$

III BINOMI x BINOMI

$$(7x+8x^2)\cdot(5x^3-4x^2)$$

$$=7x\cdot 5x^3-7x\cdot 4x^2+8x^2\cdot 5x^3-8x^2\cdot 4x^2$$

$$=35x^4-28x^3+40x^5-32x^4$$

$$=40x^5+3x^4-28x^3$$

IV BINOMI x TRINOMI

$$(3x^5 - 6x^2) \cdot (5x^2 + 2x - 7)$$

$$= 3x^5 \cdot 5x^2 + 3x^5 \cdot 2x - 3x^5 \cdot 7 - 6x^2 \cdot 5x^2 - 6x^2 \cdot 2x + 6x^2 \cdot 7$$

$$= 15x^7 + 6x^6 - 21x^5 - 30x^4 - 12x^3 + 42x^2$$

V TRINOMIX TRINOMI

$$\left(\frac{1}{3}x^2+\frac{2}{5}x-\frac{4}{7}\right)\cdot\left(-\frac{2}{9}x^2+\frac{3}{7}x-\frac{1}{2}\right)$$

$$\frac{a}{b}\cdot\frac{c}{d}=\frac{a\cdot c}{b\cdot d}$$

$$=-\frac{1}{3}x^2\cdot\frac{2}{9}x^2+\frac{1}{3}x^2\cdot\frac{3}{7}x-\frac{1}{3}x^2\cdot\frac{1}{2}-\frac{2}{5}x\cdot\frac{2}{9}x^2+\frac{2}{5}x\cdot\frac{3}{7}x$$
$$-\frac{2}{5}x\cdot\frac{1}{2}+\frac{4}{7}\cdot\frac{2}{9}x^2-\frac{4}{7}\cdot\frac{3}{7}x+\frac{4}{7}\cdot\frac{1}{2}$$

$$=-\frac{2}{27}x^4+\frac{3}{21}x^3-\frac{1}{6}x^2-\frac{4}{45}x^3+\frac{6}{35}x^2-\frac{2}{10}x+\frac{8}{63}x^2-\frac{12}{49}x+\frac{4}{14}$$

$$=-\frac{2}{27}x^4+\frac{17}{315}x^3\ldots$$