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$x^2y^2 + 5xy - 14 = (x+7y)(x-2y)$

$S = 5y \quad P = -14y^2$

$7y \quad -2y$

$-x^4 + 12x^2 - 20 =$

$-(x^4 - 12x^2 + 20) = -(x^2-10)(x^2-2)$

$S = -12 \quad P = 20$

$-10 \quad -2$

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$a^2b^6 + 3ab^3 - 40$

$S = 3b^3 \quad P = -40b^6$

$8b^3 \quad -5b^3$

$= a^2b^6 + 8b^3a - 5b^3a - 40 =$

$ab^3(ab^3+8) - 5(ab^3+8) = (ab^3-5)(ab^3+8)$

$x^8 + 9x^4 + 14$

$S = 9 \quad P = 14$

$7 \quad 2$

$(x^4+7)(x^2+2)$

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$3y^2 - 12y^6 = 3y^2(1 - 4y^4) = \boxed{3y^2(1-2y^2)(1+2y^2)}$

TOTALE — SOMMA PER DIFF

$-6y^4 + 3y^2 = \boxed{3y^2(1-2y^2)}$ TOTALE

$y^2 + 2y^2 = \boxed{3y^2}$

$\boxed{MCD = 3y^2}$

$\boxed{mcm = 3y^2(1-2y^2)(1+2y^2)}$

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$-4x - 4 + xy + y = -4(x+1) + y(x+1) = (y-4)(x+1)$

RACCOGLIAMO

$y^2 - 16 = (y-4)(y+4)$

SOMMA PER DIFF

$xy - 4x = x(y-4)$

TOTALE

$MCD = y - 4$

$mcm = x(y-4)(x+1)(y+4)$

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① $a^3b^3 + a^2b^4 - ab - b^2 =$

$b(a^3b^2 + a^2b^3 - a - b) =$ TOTALE

$b[a^2b^2(a+b) - (a+b)] = b[(a^2b^2-1)(a+b)]$ PARZIALE

$= b(ab-1)(ab+1)\underline{(a+b)}$ SOMMA E DIFF

② $a^2 + 2ab + b^2 \equiv \underline{(a+b)^2}$

③ $a^2b + a + ab^2 + b =$ ERRORE TESTO UGUALDI POLINOMI

$a(ab+1) + b(ab+1) = \underline{(a+b)}(ab+1)$

MCD: $a+b$

mcm: $b(ab-1)(ab+1)(a+b)^2$

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$6x^2 - 6x = 6x(x-1)$ TOTALE

$2x^2 - 2 = 2(x^2-1) = 2(x-1)(x+1)$ TOT + DIFF QUAD

$x^3 + x^2 = x^2(x+1)$ TOTALE

MCD = 1

mcm: $6x^2(x+1)(x-1)$

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$$x^4 - x^3 - 6x^2 = x^2(x^2 - x - 6) = x^2(x-3)(x+2)$$ TOT + TRIN. PARTI

$$x^4 + 8x = x(x^3+8) = x(x+2)(x^2+4-2x)$$ TOT + SOMMA DI CUBI

$$x^3 + 4x^2 + 4x = x(x^2+4x+4) = x(x+2)^2$$ TOT + QUAD. TRIN.

$$MCD = x(x+2)$$

$$mcm = x^2(x+2)^2(x^2+4-2x)(x-3)$$

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IRRIDUCIBILE

$$a^3 - 2a + 1 = (a+1)(a^2+a-1) =$$ ~~...~~ RUFFINI

	1	0	-2	1
+1		+1	+1	-1
	1	+1	-1	//

$$a^4 - 2a^2 + 1 = (a^2-1)^2 = (a-1)^2(a+1)^2$$ QUAD. TRINOMIO + DIFF QUAD

$$a^4 + a^3 - a^2 = a^2(a^2+a-1)$$ TOT

IRRID.

$$MCD = 1$$

$$mcm = (a+1)^2(a-1)^2(a^2+a-1)\,a^2$$