

1 Pag 430 n 105

$$100x^2 - 16x^2y^8 \quad (1)$$

Scomposizione in fattori primi: $100 = 2^2 \cdot 5^2$, $16 = 2^4$

•

$$100x^6 - 16x^2y^8 = \quad (2)$$

$$4x^2 (25x^6 - 4y^8) = 4x^2 (5x^3 - 2y^4) (5x^3 + 2y^4) \quad (3)$$

•

$$12(a^4 - 1) = 12(a^2 - 1)(a^2 + 1) = (a - 1)(a + 1)(a^2 + 1)$$

•

$$7x^{12} - 7y^8 = 7(x^{12} - y^8) = 7(x^6 - y^4)(x^6 + y^4) = \quad (4)$$

$$= 7(x^3 - y^2)(x^3 + y^2)(x^6 + y^4) \quad (5)$$

2 N106 Pag 430

•

$$3xy^2 - 3x^2 = 3x(y^2 - x^2) = 3x(x + y)(x - y) \quad (6)$$

•

$$5b^2(b - 3) - b^2 + 9 = 5b^2(b - 3) - (b^2 - 9) = \quad (7)$$

$$= 5b^2(b - 3) - (b - 3)(b + 3) = (b - 3)(5b^2 - (b + 3)) = \quad (8)$$

$$= (b - 3)(5b^2 - b - 3) \quad (9)$$