

7/1/2020

RACCOLGIMENTO A FATTORE COMUNE TOTALE

8)  $3x^3 + x^2$

$3x^2y + x^4y^2$

9)  $x^5 - x^3$

$ab^2 + a^2b$

8)  $3x^3 + x^2 = x^2(3x + 1)$

$3x^2y + x^4y^2 = x^2y(3 + x^2y)$

9)  $x^5 - x^3 = x^3(x^2 - 1)$

$ab^2 + a^2b = ab(b + a)$

15)  $4x^3 - 12x^2 + 6x = 2x(2x^2 - 6x + 3)$

14)  $2a^4b^3 - 3a^3b^2 + 5a^2b^4 = a^2b^2(2a^2b - 3a + 5b^2)$

19)  $x^{2n} - x^n = x^n(x^n - 1)$

20)  $x^{n+2}y^2 - x^{n+1}y^{n+3}$   $a^{2n}b^4 - a^{n+1}b^2$

$x^{n+2}y^2 - x^{n+1}y^{n+3} = x^{n+1}y^2(x - y^{n+1})$

$a^{2n}b^4 - a^{n+1}b^2 = a^{n+1}b^2(a^{n-1} - 1)$

$2n - (n+1) = n-1$

$$34 \quad 3a(a+b) - x(a+b)$$

$$35 \quad (2a+b)^2 - (2a+b)$$

$$34 \quad 3a(a+b) - x(a+b) = (a+b)(3a-x)$$

$$35 \quad (2a+b)^2 - (2a+b) = (2a+b)[(2a+b)-1] = \\ = (2a+b)(2a+b-1)$$

$$37 \quad (a+1)(a^2+1) - (a-1)(a^2+1) =$$

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

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