16/1/2020

246
$$a^4 - a^2b^2 = a^2(a^2 - b^2) = a^2(a - b)(a + b)$$

$$247 \quad 3x^2 - 6x + 3 = 3(x^2 - 2x + 1) = 3(x - 1)^2$$

248
$$a^2x - b^2x + a^2y - b^2y =$$

=
$$\times (a^2 - l^2) + y(a^2 - l^2) = (a^2 - l^2)(x + y) =$$

$$= (a-l-)(a+l-)(x+y)$$

249
$$z(x-y)^2-z^3 =$$

$$= 2[(x-y)^{2}-2^{2}]=2[(x-y)-2][(x-y)+2]=$$

$$= 2(x-y-2)(x-y+2)$$

$$250 x^4 + 3x^3 + 3x^2 + x =$$

$$= \times (x^3 + 3x^2 + 3x + 1) = \times (x + 1)^3$$

$$267 \quad a^4 - a^2 - 20a - 100 = \alpha^4 - (\alpha^2 + 20\alpha + 100) =$$

$$= \alpha^{4} - (\alpha + 10)^{2} = \left[\alpha^{2} - (\alpha + 10)\right] \left[\alpha^{2} + (\alpha + 10)\right] =$$

$$= (a^2 - a - 10)(a^2 + a + 10)$$

268
$$x^7 - 2x^5 + x^3 =$$

$$= \times^{3} (\times^{4} - 2 \times^{2} + 1) = \times^{3} (\times^{2} - 1)^{2} =$$

$$= \times^{3} (\times -1)^{2} (\times +1)^{2}$$

DIFFERENZA DI GUADRAZI

$$274 \quad x^{4n+2}y^n - x^2y^{3n} = x^2y^n \left(x^{4n} - y^{2n}\right) =$$

$$= \times^2 y^m \left(\times^{2m} - y^m \right) \left(\times^{2m} + y^m \right)$$

$$A^3 - B^3 = (A - B)(A^2 + AB + B^2)$$

FALSO QUADRATO

ES.

$$8x^{3} - 1 = (2x - 1)(4x^{2} + 2x + 1)$$

$$\sqrt{2x}$$

DIMOSTRAZIONE

$$(A-B)(A^2+AB+B^2) = A^3+A^2B+AB^2-A^2B-AB^2-B^3$$

230
$$x^6 - 8y^3 = (x^2 - 2y)(x^4 + 2x^2y + 4y^2)$$

234
$$a^9 - 8b^6c^3 = (a^3 - 2l^2c)(a^6 + 2a^3l^2c + 4l^4c^2)$$

235
$$8x^6 - 27y^3 = (2x^2 - 39)(4x^4 + 6x^2y + 9y^2)$$

$$A^3 + B^3 = (A+B)(A^2 - AB + B^2)$$

$$27 \times^3 + 1 = (3 \times + 1)(3 \times^2 - 3 \times + 1)$$

$$125 + 8t^3 = (5 + 2t)(25 - 10t + 4t^2)$$

$$a^{3x} + a^6 = (\alpha^x + \alpha^2)(\alpha^2 - \alpha^2 + \alpha^4)$$

252
$$2x^3 - 16y^3 = 2(x^3 - 8y^3) =$$

$$= 2(x-29)(x^2+2xy+4y^2)$$

256
$$x^7 - 81x^3 = x^3(x^4 - 81) =$$

$$= x^{3}(x^{2}-9)(x^{2}+9) = x^{3}(x-3)(x+3)(x^{2}+9)$$

266
$$8a^4 - 27a = \alpha (8\alpha^3 - 27) =$$

$$= a(2a-3)(4a^2+6a+9)$$