

Werk de haakjes weg en gebruik daarbij zo mogelijk een merkwaardig product.

$$1) -3(x^2 - 1)^2 = -3(x^4 - 2x^2 + 1) = -3x^4 + 6x^2 - 3$$

$$2) -3(-2x - 5)(-2x - 5) = -3(-2x - 5)^2 = -3(4x^2 + 20x + 25) = -12x^2 - 60x - 75$$

$$3) -3(-2x - 5)(2x - 5) = -3(25 - 4x^2) = -75 + 12x^2 = 12x^2 - 75$$

$$4) -10a^2b(-a^2 - 2b^4)^2 = -10a^2b(a^4 + 4a^2b^4 + 4b^8) = -10a^6b - 40a^4b^5 - 40a^2b^9$$

$$5) -10xy^2(x^4 - 1)^2 = -10xy^2(x^8 - 2x^4 + 1) = -10x^9y^2 + 20x^5y^2 - 10xy^2$$

$$6) -8(-2x - 5)(-2x + 6) = -8(4x^2 - 12x + 10x - 30) = -32x^2 + 16x + 240$$

$$7) -3(-2x^3 - 5x)(2x^3 - 5x) = -3(25x^2 - 4x^6) = -75x^2 + 12x^6 = 12x^6 - 75x^2$$

$$8) -10xy^2(x^4 - 3y^2)^2 = -10xy^2(x^8 - 6x^4y^2 + 9y^4) = -10x^9y^2 + 60x^5y^4 - 90xy^6$$

$$9) -y(-2x - 5a)^2 = -y(4x^2 + 20ax + 25a^2) = -4x^2y - 20axy - 25a^2y$$

$$10) (x - 2)(x^2 - x + 5) = x^3 - x^2 + 5x - 2x^2 + 2x - 10 = x^3 - 3x^2 + 7x - 10$$

$$11) (7 - 6x)^2 = 49 - 84x + 36x^2 = 36x^2 - 84x + 49$$

$$12) -2(5a^2bc^3 + 1)(5a^2b^2c^3 - 1) = -2(25a^4b^3c^6 - 5a^2bc^3 + 5a^2b^2c^3 - 1) \\ = -50a^4b^3c^6 + 10a^2bc^3 - 10a^2b^2c^3 + 2$$

$$13) -3ab^2(5a^2bc^3 - ab^4)^2 = -3ab^2(25a^4b^2c^6 - 10a^3b^5c^3 + a^2b^8) \\ = -75a^5b^4c^6 + 30a^4b^7c^3 - 3a^3b^{10}$$

$$14) (3 + x)(x - 3) = (x + 3)(x - 3) = x^2 - 9$$

$$15) (v - c)^2 = v^2 - 2vc + c^2$$