MEMO 2020-8ÆD-00017(1)

Vereenvoudig:

(1) $4x(2x^2 + 3x)$

$= 8x^3 + 12x^2$

(2) $m^2n^5(4m^5 - mn^3)$

$= 4m^7n^5 - m^3n^8$

(3) $(6k^3 - 3k^5)(5k^3)$

$= (5k^3)(6k^3 - 3k^5)$

$= 30k^6 - 15k^8$

(4) $(x^7 - 5xy^4)(-2x^3y)$

$= (-2x^3y)(x^7 - 5xy^4)$

$= -2x^{10}y + 10x^4y^5$

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

$= 4a^3b^2 + 10a^3b^3 - 12a^3b^3 - 4a^3b^2$

$= 4a^3b^2 - 4a^3b^2 + 10a^3b^3 - 12a^3b^3$

$= 0a^3b^2 - 2a^3b^3$

$= -2a^3b^3$

(6) $t^2(t^2 - 6t - 4) - t^3(5 + 3t)$

$= t^4 - 6t^3 - 4t^2 - 5t^3 - 3t^4$

$= 1t^4 - 3t^4 - 6t^3 - 5t^3 - 4t^2$

$= -2t^4 - 11t^3 - 4t^2$

(7) $7p(2p + 2q) - 3q(7p - q)$

$= 14p^2 + 14pq - 21pq + 3q^2$

$= 14p^2 + 14pq - 21pq + 3q^2$

$= 14p^2 - 7pq + 3q^2$

(8) $2a^3(5a^2 + 7a) + 5a^4(6a + 8)$

$= 10a^5 + 14a^4 + 30a^5 + 40a^4$

$= 10a^5 + 30a^5 + 14a^4 + 40a^4$

$= 40a^5 + 54a^4$

(9) $(15x - 6y)4 - 2(2y + 6x)$

$= 4(15x - 6y) - 2(2y + 6x)$

$= 60x - 24y - 4y - 12x$

$= 60x - 12x - 24y - 4y$

$= 48x - 28y$

(10) $(2k^6m^2 + 3k^3m^3) - 3km(6k^5m + 9km)$

$= 2k^6m^2 + 3k^3m^3 - 18k^6m^2 - 27k^2m^2$

$= 2k^6m^2 - 18k^6m^2 + 3k^3m^3 - 27k^2m^2$

$= 16k^6m^2 + 3k^3m^3 - 27k^2m^2$