

$$78/1 \quad a) \quad 4 - (x-1) + (x+2) - 5x - 9 + (3x-4) =$$

$$= 4 - x + 1 + x + 2 - 5x - 9 + 3x - 4 = \underline{\underline{-2x - 6}} \quad \checkmark$$

$$b) \quad 7m - (2-2m) - (3m+5) - 8 + (6+3m) =$$

$$= 7m - 2 + 2m - 3m - 5 - 8 + 6 + 3m = \underline{\underline{9m - 9}} \quad \checkmark$$

$$c) \quad 4a - 11 - (5a+4) - (-3-4a) + a =$$

$$= 4a - 11 - 5a - 4 + 3 + 4a + a = \underline{\underline{4a - 12}} \quad \checkmark$$

$$d) \quad y - (2y-5) + (6-y) - (-9-2y) - y =$$

$$= y - 2y + 5 + 6 - y + 9 + 2y - y = \underline{\underline{-y + 20}} \quad \checkmark$$

$$e) \quad -3 - (-2-7t) - (-t+6) + (3-5t) - 10t =$$

$$= -3 + 2 + 7t + t - 6 + 3 - 5t - 10t = \underline{\underline{-7t - 4}} \quad \checkmark$$

$$78/2 \quad a) \quad -5 - 2(x+3) + 2(5-4x) - 3(2x-7) =$$

$$= -5 - 2x - 6 + 10 - 8x - 6x + 21 = \underline{\underline{-16x + 20}} \quad \checkmark$$

$$b) \quad 4(3-5a) - a - 2(4a+1) - 3 + 4(6a-1) =$$

$$= 12 - 20a - a - 8a - 2 - 3 + 24a - 4 = \underline{\underline{-5a + 3}} \quad \checkmark$$

$$c) \quad 0,5(6-2b) - 0,2(b-3) + 1,5(3-5b) =$$

$$= 3 - b - 0,2b + 0,6 + 4,5 - 7,5b = \underline{\underline{-8,7b + 8,1}} \quad \checkmark$$

$$d) \quad 0,3(3y-5) - 4(1,5-2y) - 1,1(-3-4y) =$$

$$= 0,9y - 1,5 - 6 + 8y + 3,3 + 4,4y = \underline{\underline{13,3y - 4,2}} \quad \checkmark$$

$$e) \quad -5k - (k-3) - 5(3-3k) + (-2k-1) - 2 =$$

$$= -5k - k + 3 - 15 + 15k - 2k - 1 - 2 = \underline{\underline{7k - 15}} \quad \checkmark$$

$$f) \quad 0,4x - (-0,6x) - 1 - 4(0,5x-2,5) + 2(1,5-3,5x) =$$

$$= 0,4x + 0,6x - 1 - 2x + 10 + 3 - 7x = \underline{\underline{-8x + 12}} \quad \checkmark$$

$$g) \quad 2,2(3s-2) - (-2,5s-1) + 1,2(6-7s) - (-5s) =$$

$$= 6,6s - 4,4 + 2,5s + 1 + 7,2 - 8,4s + 5s = \underline{\underline{5,7s + 3,8}} \quad \checkmark$$

$$h) \quad 4(p+2) - 7(3-2p) - (8p+7) - 2p =$$

$$= 4p + 8 - 21 + 14p - 8p - 7 - 2p = \underline{\underline{8p - 20}} \quad \checkmark$$

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$$i) 2,5(6-2x) - (8x+3) - 1,2(5-10x) - 2(3,5x+7) =$$

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$$= 15 - 5x - 8x - 3 - 6 + 12x - 7x - 14 = \underline{\underline{-8x - 8}} \quad \checkmark$$

$$j) 10 + (1-2v) - 0,5(2v-6) + 8(1-0,5v) - 4v =$$

$$= 10 + 1 - 2v - v + 3 + 8 - 4v - 4v = \underline{\underline{-11v + 22}} \quad \checkmark$$

$$k) -7a - (a-3) + 2,1(10a-3) - 3,7 - (-2a) =$$

$$= -7a - a + 3 + 21a - 6,3 - 3,7 + 2a = \underline{\underline{15a - 7}} \quad \checkmark$$

$$l) 6(3x-8) - 5(2x+1) - 4(3-2x) - 3(7x-1) =$$

$$= 18x - 48 - 10x - 5 - 12 + 8x - 21x + 3 = \underline{\underline{-5x - 62}} \quad \checkmark$$

$$m) -0,5b - (-0,5) - 0,5(2b-1) - 1,5(3-2b) =$$

$$= -0,5b + 0,5 - b + 0,5 - 4,5 + 3b = \underline{\underline{+1,5b - 3,5}} \quad \checkmark$$

$$n) 1 - 1,4(5y-10) + (-2y) + 4(3-1,5y) - 8y =$$

$$= 1 - 7y + 14 - 2y + 12 - 7y - 8y = \underline{\underline{-23y + 27}} \quad \checkmark$$

$$79/3 \quad a) 7x - [(3y+2x) - (4x-5y)] - (-8y) =$$

$$= 7x - 3y - 2x + 4x - 5y + 8y = \underline{\underline{9x}} \quad \checkmark$$

$$b) 5a - (3b-5) - [(2a+3) - (7a-5b)] =$$

$$= 5a - 3b + 5 - 2a - 3 + 7a - 5b = \underline{\underline{10a - 8b + 2}} \quad \checkmark$$

$$c) -r + (r-2p) - \{(3r+6p) - [(4r-7p) + 3p]\} - (r+5p) =$$

$$= -r + r - 2p - 3r - 6p + 4r - 7p + 3p + r - 5p = \underline{\underline{2r - 7p}} \quad \checkmark$$

$$d) -(c-2d) - \{[(6c-3d) - (4c+d)] + 5d\} =$$

$$= -c + 2d - 6c + 3d + 4c + d - 5d = \underline{\underline{-3c + d}} \quad \checkmark$$

$$e) x^2 + xy - (2x^2 - 3xy) - [(2xy - 5x^2) - (-xy)] =$$

$$= x^2 + xy - 2x^2 + 3xy - 2xy + 5x^2 - xy = \underline{\underline{4x^2 + xy}} \quad \checkmark$$

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79/4 a) $x(2x+3) = \underline{2x^2 + 3x}$ ✓

b) $(4x^2+5x-1) \cdot x = \underline{4x^3+5x^2-x}$ ✓

c) $(-3y) \cdot (0,3y-10) = \underline{-0,9y^2+30y}$ ✓

d) $10r \cdot (0,5r^2+0,7r-0,6) = \underline{5r^3+7r^2-6r}$ ✓

e) $(3m^2-m+0,2) \cdot (-6m) = \underline{-18m^3+6m^2-1,2m}$ ✓

f) $(2x^3-4x^2+6x-8) \cdot \frac{1}{2}x = \underline{x^4-2x^3+3x^2-4x}$ ✓

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81/10 a) $2x-3x^2 = \underline{x(2-3x)}$ ✓

b) $7ab^2-14a^2b = \underline{7ab(b-2a)}$ ✓

c) $8m^3-4m^2n+16m = \underline{4m(2m^2-mn+4)}$ ✓

d) $15-10k = \underline{5(3-2k)}$ ✓

e) $3y^3-6xy+12y^2 = \underline{3y(y^2-2x+4y)}$ ✓

f) $2x^2-2x+4 = \underline{2(x^2-x+2)}$ ✓

g) $35a^2b^2c^2-7ab^2c = \underline{7abc(5ac-b)}$ ✓

h) $16s^3-8s^2 = \underline{8s^2(2s+1)}$ ✓

81/11 a) $7x^2y+14xy^2-7x^2y^2 = \underline{7xy(x+2y-xy)}$ ✓

b) $-(-5a^2b^3)+10a^3b^2-5ab = \underline{5ab(ab^2+2a^2b-1)}$ ✓

c) $2c^4d^2-4c^3d+6c^2d^2 = \underline{2c^2d(c^2d-2c+3d^2)}$ ✓

d) $3x^3y^4z^2-6x^2y^3z^4+9x^2y^2z^2 = \underline{3x^2y^2z^2(xy^2-2yz^2+3)}$ ✓

e) $18a^4b^5c^3-9a^3b^6c^2+36a^4b^4c^4 = \underline{9a^3b^4c^2(2abc-b^2+4ac^2)}$ ✓

f) $16p^8r^4+32p^5r^3-16p^6r^2 = \underline{16p^5r^2(p^3r^2+2pr-p)}$ ✓

g) $45xy^5z^2-15xz^4+30xy^2z^3 = \underline{15xz^3(3y^2z^2-z+2y)}$ ✓

h) $20m^3n^2+30m^2n^3-40m^3n = \underline{10m^2n(2mn+3n^2-4m)}$ ✓