

$$105 - 1, 2, 3, 4$$

$$106 - 5, 6, 7, 8, 9$$

MS -1

$$105/1 \quad a) (2a+3) + 5a = 2a+3+5a = \underline{7a+3}$$

$$b) 6x + (5-3x) = 6x+5-3x = \underline{3x+5}$$

$$c) (3k+2) + (5k-2) = 3k+2+5k-2 = \underline{8k}$$

$$d) (7r+4) + (9-8r) = 7r+4+9-8r = \underline{-r+13}$$

$$e) (3y+6) + (-2y-4) = 3y+6-2y-4 = \underline{y+2}$$

$$f) (2-7x) + (9-4x) = 2-7x+9-4x = \underline{11-11x}$$

$$105/2 \quad a) (5x+2y-1) + (x-2y+3) = 5x+2y-1+x-2y+3 = \underline{6x+2}$$

$$b) (8-4a-6) + (3a-9b-6) = 8-4a-6+3a-9b-6 = \underline{-a-9b-4}$$

$$c) (5m-9) + (4n-8m) = 5m-9+4n-8m = \underline{4n-3m-9}$$

$$d) (2r+7s) + (5-3r) + (3s+2r) = 2r+7s+5-3r+3s+2r = \underline{r+10s+5}$$

$$e) (k-2m) + (3m-k) + (5k-4) = k-2m+3m-k+5k-4 = \underline{5k+m-4}$$

$$f) ~~(2-7x)~~ + (-p+2q) + (5q-4) + (7-2p) = -p+2q+5q-4+7-2p = \underline{-3p+7q+3}$$

$$105/3 \quad a) (0,3a + 2,9b) + (7 - 3a + 4b) + (2,6a - 5,2b + 6,3) =$$

$$= 0,3a + 2,9b + 7 - 3a + 4b + 2,6a - 5,2b + 6,3 =$$

$$= \underline{-0,1a - 1,3b + 13,3}$$

$$b) (18 - 2,4m + 2n) + (3,1m - 1,6n) + (6,3m - 0,8n - 3,5) =$$

$$18 - 2,4m + 2n + 3,1m - 1,6n + 6,3m - 0,8n - 3,5 =$$

$$= \underline{7m - 0,4n + 14,5}$$

$$c) (3p^3 + 2p^2 + 4) + (3p + 8p^2 - 1) + (3 - 6p^2 - 2p) =$$

$$3p^3 + 2p^2 + 4 + 3p + 8p^2 - 1 + 3 - 6p^2 - 2p =$$

$$= \underline{3p^3 + 4p^2 + p + 6}$$

$$105/3 \quad d) (4k^4 + 5k^3 + 6) + (2k^3 + 5k^2 + 7) + (k^4 - 9k^2 + 5k) =$$

$$= 4k^4 + 5k^3 + 6 + 2k^3 + 5k^2 + 7 + k^4 - 9k^2 + 5k =$$

$$= \underline{\underline{5k^4 + 7k^3 - 4k^2 + 5k + 13}}$$

178-2

$$e) (a^2 + 7ab + 4) + (5a^2 + 3b^2 + 2a^2b) + (8b^2 + ab + 1) =$$

$$= \underbrace{a^2}_{\text{}} + 7ab + 4 + \underbrace{5a^2}_{\text{}} + 3b^2 + 2a^2b + 8b^2 + ab + 1 =$$

$$= \underline{\underline{6a^2 + 11b^2 + 2a^2b + 9ab + 5}}$$

$$f) (5x^2 + x^2y + 2) + (9 - x^2y + y^2) + (6x^2 + 7xy^2 + 2y^2) =$$

$$= 5x^2 + x^2y + 2 + 9 - x^2y + y^2 + 6x^2 + 7xy^2 + 2y^2 =$$

$$= \underline{\underline{11x^2 + 3y^2 + 7xy^2 + 11}}$$

$$105/4 \quad a) 7a \rightarrow -7a$$

$$b) -8x \rightarrow 8x$$

$$c) 3z - 4 \rightarrow -3z + 4$$

$$d) 5c + 8d \rightarrow -5c - 8d$$

$$e) 9x^3 - 2x + 4 \rightarrow -9x^3 + 2x - 4$$

$$g) -9x^2 - 6xy - y^2 \rightarrow 9x^2 + 6xy + y^2$$

$$f) -17a^2 + 11a^2b - 6 \rightarrow 17a^2 - 11a^2b + 6$$

$$h) 0,8p^2 + 4q^2 + 9 \rightarrow -0,8p^2 - 4q^2 - 9$$

$$i) -1,5m^4 + 7m - 4 \rightarrow 1,5m^4 - 7m + 4$$

106/5

POZOR PŘI ODSTRANĚNÍ ZÁVORKY
 NA ZNAMENKA (MINUS PŘED ZÁVORKOU
 OTOČÍ ZNAMENKA NA OPACNÁ)

$$a) (7a - 4) - 5 = 7a - 4 - 5 = \underline{\underline{7a - 9}}$$

$$b) (9x - 8) - 2x = 9x - 8 - 2x = \underline{\underline{7x - 8}}$$

$$c) 3 - (6a - 2) = 3 - 6a + 2 = \underline{\underline{-6a + 5}}$$

$$d) 5x - (7 - 3x) = 5x - 7 + 3x = \underline{\underline{8x - 7}}$$

$$e) (4k + m) - (3m + 2k) = 4k + m - 3m - 2k = \underline{\underline{2k - 2m}}$$

$$f) (5p - 9q) - (4p - 2q) = 5p - 9q - 4p + 2q = \underline{\underline{p - 7q}}$$

$$g) (-4y + 2z) - (-3y - 2z) = -4y + 2z + 3y + 2z = \underline{\underline{-y + 4z}}$$

$$h) (10r - 7s) - (5 - 3r) =$$

$$= 10r - 7s - 5 + 3r =$$

$$= \underline{\underline{13r - 7s - 5}}$$

106/6

M8-3

$$a) (9x - 5y + 4z) - (7x + 8y - 2z + 3) =$$

$$= 9x - 5y + 4z - 7x - 8y + 2z - 3 = \underline{\underline{2x - 13y + 6z - 3}}$$

$$b) (7a^2 - 8a + 3) - (4a^2 + 9a - 1) =$$

$$= 7a^2 - 8a + 3 - 4a^2 - 9a + 1 = \underline{\underline{3a^2 - 17a + 4}}$$

$$c) (-12x^2 + 6x - 1) - (3x^2 - 14x + 2) =$$

$$= -12x^2 + 6x - 1 - 3x^2 + 14x - 2 = \underline{\underline{-15x^2 + 20x - 3}}$$

$$d) (5p^2 + 3pq + q^2) - (7p^2 + 8pq - 2q^2) =$$

$$= 5p^2 + 3pq + q^2 - 7p^2 - 8pq + 2q^2 = \underline{\underline{-2p^2 + 3q^2 - 5pq}}$$

$$e) (8y^3 + 9x^2y - xy) - (y^2 - 7xy^2 + 6xy - 4) =$$

$$= 8y^3 + 9x^2y - xy - y^2 + 7xy^2 - 6xy + 4 = \underline{\underline{8y^3 - y^2 + 9x^2y + 7xy^2 - 7xy + 4}}$$

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

$$= a^2 + 3a^2b + 4ab^2 - b^2 - 3b^2 + 5ab^2 - 4a^2b + 3a^2 =$$

$$= \underline{\underline{+4a^2 - 4b^2 - a^2b + 9ab^2}}$$

$$106/7 \quad a) 5a - [3b + 4 - (7 - 8a) + 4b] =$$

$$= 5a - 3b - 4 + (7 - 8a) - 4b = 5a - 3b - 4 + 7 - 8a - 4b =$$

$$= \underline{\underline{-3a - 7b + 3}}$$

$$b) -(3x + 4y) - [(9x - 7y) - (10x + 5y)] =$$

$$= -3x - 4y - (9x - 7y) + (10x + 5y) = -3x - 4y - 9x + 7y + 10x + 5y =$$

$$= \underline{\underline{-2x + 8y}}$$

$$c) -6 - [a^2 + 3a - (6a^2 - a) + (a - 5a^2)] + 3a^2 - 2 =$$

$$= -6 - a^2 - 3a + 6a^2 - a - a + 5a^2 + 3a^2 - 2 = \underline{\underline{13a^2 - 5a - 8}}$$

$$d) \underline{\underline{(a^2 + 3a^2b + 4ab^2 - b^2) - (}} \quad \underline{\underline{5p^2 + 4) - [-(9p + 3p^2 - 7) + (7p^2 - 10)] =}}$$

$$= 5p^2 + 4 + 9p + 3p^2 - 7 - 7p^2 + 10 = \underline{\underline{p^2 + 9p + 7}}$$

106/8

$$a + (a+1) + (a+2) = \underline{\underline{3a+3}}$$

DĚLITELNÉ' 3

MF-4

106/9

$$(a-3) + (a-2) + (a-1) + a = \underline{\underline{4a-6}}$$

DĚLITELNÉ' 2

KOMU SE POUČE NAJIT CHYBU, POKUD ZDE
NĚJAKA' JE, BUDE ODMĚNĚN.

KK
