Terme mit Plus- und Minusklammern

1 Löse die Plusklammer auf.

a) $8 + (2x - 5y) = \underline{\quad 8 + 2x - 5y \quad}$ b) $7 + (3m + 2n) = \underline{\hspace{3cm}}$

c) $(5a + 9) - 3b = \underline{\hspace{3cm}}$ d) $6c + (4 - d) = \underline{\hspace{3cm}}$

e) $5 + (3v + 8w) = \underline{\hspace{3cm}}$ f) $(7r - 3) + 5s = \underline{\hspace{3cm}}$

2 Löse die Minusklammer auf.

a) $3 - (7x - 6y) = \underline{\quad 3 - 7x + 6y \quad}$ b) $9 - (4i + 3j) = \underline{\hspace{3cm}}$

c) $k - (8h - 2) = \underline{\hspace{3cm}}$ d) $6 - (-3e - 5f) = \underline{\hspace{3cm}}$

e) $15w - (-8v + 6) = \underline{\hspace{3cm}}$ f) $5t - (12u + 7) = \underline{\hspace{3cm}}$

3 Löse die Klammer auf und fasse zusammen.

a) $9x - (x + 4y)$ b) $5r + (-8s - 2r)$ c) $-3v + (8v - 5w)$

$= \underline{\quad 9x - x - 4y \quad}$ $= \underline{\hspace{2.5cm}}$ $= \underline{\hspace{2.5cm}}$

$= \underline{\quad 8x - 4y \quad}$ $= \underline{\hspace{2.5cm}}$ $= \underline{\hspace{2.5cm}}$

d) $7m - (3n + 6m)$ e) $-h - (2i - 7h)$ f) $6z + (y - 14z)$

$= \underline{\hspace{2.5cm}}$ $= \underline{\hspace{2.5cm}}$ $= \underline{\hspace{2.5cm}}$

$= \underline{\hspace{2.5cm}}$ $= \underline{\hspace{2.5cm}}$ $= \underline{\hspace{2.5cm}}$

g) $13p + (11q - 4p)$ h) $10d - (-9e + 12d)$ i) $4c - (d - 6c - 9e)$

$= \underline{\hspace{2.5cm}}$ $= \underline{\hspace{2.5cm}}$ $= \underline{\hspace{2.5cm}}$

$= \underline{\hspace{2.5cm}}$ $= \underline{\hspace{2.5cm}}$ $= \underline{\hspace{2.5cm}}$

4 Welche Terme sind gleichwertig? Verbinde die Kärtchen durch eine Linie.

$-(5x + 8y)$	$= \underline{\quad -5x - 8y \quad}$	$5x + 8y$
$+(8x - 5y)$	$= \underline{\hspace{3cm}}$	$8x + 5y$
$-(-5x + 8y)$	$= \underline{\hspace{3cm}}$	$8x - 5y$
$-(-8x - 5y)$	$= \underline{\hspace{3cm}}$	$-5x - 8y$
$+(5x + 8y)$	$= \underline{\hspace{3cm}}$	$5x - 8y$

Terme mit Plus- und Minusklammern – Lösung

1

a) $8 + 2x - 5y$

d) $6c + 4 - d$

b) $7 + 3m + 2n$

e) $5 + 3v + 8w$

c) $5a + 9 - 3b$

f) $7r - 3 + 5s$

2

a) $3 - 7x + 6y$

d) $6 + 3e + 5f$

b) $9 - 4i - 3j$

e) $15w + 8v - 6$

c) $k - 8h + 2$

f) $5t - 12u - 7$

3

a) $9x - (x + 4y)$
$= 9x - x - 4y$
$= 8x - 4y$

d) $7m - (3n + 6m)$
$= 7m - 3n - 6m$
$= m - 3n$

g) $13p + (11q - 4p)$
$= 13p + 11q - 4p$
$= 9p - 11q$

b) $5r + (-8s - 2r)$
$= 5r - 8s - 2r$
$= 3r - 8s$

e) $-h - (2i - 7h)$
$= -h - 2i + 7h$
$= 6h - 2i$

h) $10d - (-9e + 12d)$
$= 10d + 9e - 12d$
$= -2d + 9e$

c) $-3v + (8v - 5w)$
$= -3v + 8v - 5w$
$= 5v - 5w$

f) $6z + (y - 14z)$
$= 6z + y - 14z$
$= -8z + y$

i) $4c - (d - 6c - 9e)$
$= 4c - d + 6c + 9e$
$= 10c - d + 9e$

4

$-(5x + 8y)$	$= -5x - 8y$
$+(8x - 5y)$	$= 8x - 5y$
$-(-5x + 8y)$	$= 5x - 8y$
$-(-8x - 5y)$	$= 8x + 5y$
$+(5x + 8y)$	$= 5x + 8y$

$5x + 8y$

$8x + 5y$

$8x - 5y$

$-5x - 8y$

$5x - 8y$