Worksheet

10/04/2019

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Problem quickname: 6625

<u>1)</u>

Simplify the expression by eliminating the brackets and combining like terms.

a) $-7c - 8c + 6b - 3b - ((-9)b + 9c) \qquad = 12b - 24c$

b) $-8a - 3a - 5a - (b + 2c - 5b) \qquad = 4b - 16a - 2c$

c) $-8c - 5b + 4a - ((-6)b - 6b + 7b + c) \qquad = 4a - 9c$

d) $-3c - 2c + 6b - ((-4)c + 4a) \qquad = 6b - 4a - c$

e) $3a + 3b - 5b - (5a - 2a - 8b) \qquad = 6b$

<u>2)</u>

Simplify the expression by eliminating the brackets and combining like terms.

a) $9c + 7b - 3a - (5b - 4a + 8a) - ((-2)a + 10c + b) \qquad = b - 5a - c$

b) $-2a - 5a - 5b - (3a + 9b) - (b - 7a + 2a) \qquad = -5a - 15b$

c) $a + 3b - 3c - 2b - ((-7)b + b - 2c) - ((-9)c - 2c - 8a) \qquad = 9a + 7b + 10c$

d) $-9c - 3b - (2c - 7b - 6a + 5b) - ((-4)b - 4b - 9a) \qquad = 15a + 7b - 11c$

e) $-2c + 8c - (b + 8b) - (9b - 6c + 9b) \qquad = 12c - 27b$

<u>3)</u>

Simplify the expression by eliminating the brackets and combining like terms.

a) $8c - 2d - (6b - 9c + 2b) \qquad = 17c - 8b - 2d$

b) $3c - 6c - (9b - 10d - 9c + 5c) \qquad = c - 9b + 10d$

c) $-4b - 2b + 5b - (9a + 4b) \qquad = -9a - 5b$

d) $d - 3d - 4b - ((-2)c + 5a - 6c) \qquad = 8c - 5a - 4b - 2d$

e) $-2a - 5c - 4b - ((-6)b - 7b - 9a) \qquad = 7a + 9b - 5c$

<u>4)</u>

Simplify the expression by eliminating the brackets and combining like terms.

a) $9a - 7c + 3b - (b - 4e) - (3c + 6b + 10e) \qquad = 9a - 4b - 10c - 6e$

b) $5a + 3e + 8c + 6c - ((-6)d + 4a) - (4f + 4c) \qquad = a + 10c + 6d + 3e - 4f$

c) $9d - 10b - (7c - 8b - 3a) - (4b + 9d - 6b)$ $\qquad = 3a - 7c$

d) $9c - 4d - 3b - (6d - 2e + e) - ((-8)b + 10d - 5b + 3d)$
$= 10b + 9c - 23d + e$

e) $-8a + 6a + 8c - (d - 4b) - ((-9)c - 2e)$ $\qquad = 4b - 2a + 17c - d + 2e$

Good Luck!