Worksheet

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Problem quickname: 3291

<u>1)</u>

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

a) $(a - 5b - 3b)((-5)b - 7a + 7a)$ b) $-5a + 5c - 2a + 2b + 5c + 5a + b$

c) $-8a + 3b - 3b + 4b - 5a + b - 7c$ d) $2b + 6a - 7b + 5b - (9b - 5a)$

e) $4a - 2c - (7b - 2a + 2a - 6b)$

<u>2)</u>

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

a) $3a - 10a - 10a + 5b + 7b + 9a + 2b + 9b + a - 4a$

b) $(-9b - 8a + 3b - 2a - 4b + 4a - 4a)((-5)a + 3b - 5b)$

c) $7a + a + 5b + 8b + 8b + 8b - (7b + b - 6a)$

d) $(-8a - 9a + 4b)(7b - 3b + 2a) - 10a - 7b - 7a$

e) $(10a - 4b + 8a)(a + 9b) - 5b + 2a - 2b - 9b$

<u>3)</u>

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

a) $8d + 4d + 8c - (3e + 5d - 6b) - 2f - 8e + 8c$

b) $-3e - 4c - 3b + 8c + 7d - 6a + 9d + 3b + 9d - 4a$

c) $(3b - 5c - 3e + 2c + 9d + 4e)(7e - 3d - 3f)$

d) $(7e + 9b)(7d - 8c + 5d) - 8d - 7f$

e) $10b + 8c + 10c - (c - 2c - 7c - 7a) - 4e - 8c - 2f$

<u>4)</u>

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

a) $2b + 8a + b - (8a - 7b - 9a) + 3a + a + a$

b) $-6a + a + 10b - (b - 2b - 2a) - 7a + 2b + 8b + a$

c) $(2a - 2b + 3b)(7a - 5a) + b + 8a$

d) $b + 6b + 2b - 6b + 6b + 8a + 7a - 7b + 6b - 9a$

e) $-4b - 7a + 5b - (7a - 2a - 5a) - 6a + 3a$

Good Luck!