

Worksheet

10/21/2019

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Problem quickname: 3291

1)

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

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

2)

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

- a) $-9a - 2a + 6b + a - 7a - 9a - 10b - 2b$
b) $6a + 6a + 2a - (8b + b + 8b) - (6b + b)$
c) $(-2b + 3b - 8a)(4b + a) - 6a + 2b$
d) $3a - 2b - 8a - (9b - 8b) + 9a - 8a - 3a + 8b$
e) $(-10b + 4a + 7a - 9a)(b - 7b + 5a) - (4b - 5b)$

3)

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

- a) $9b + 3e - 6a - 7b + 6e - 5e - ((-2)c - 2e - 7d - 10c)$
b) $(8c + 8f + 9d + 8d)((-4)b - 6e)$
c) $2b + 3c - 6a + 7d + e + 2c + 9d - (8d + 7e + d + 6d)$
d) $-8d + 9b - 8d - 4c + 5e + 4e - ((-9)d + 6d + 10c - 3b)$
e) $(f + 4b + 7a - 8c)(7d - 3c - 5e + 5d) + 4c + c$

4)

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

- a) $(10b + 5b + 3a + 3a)((-8)a - 4b)$
b) $a - 5a + 2a + 7a + 5a - 5b - (8a + 7b + 4b)$
c) $-8b + a + 2a - (5b - 2a + a) - 6a + b - 3b - 3b$
d) $a + 9b + 6a - (9a - 4a + 5b) + 8b + 5a + 5a - 8a$
e) $(-6b - 6a + 9b - (7b - 5a))((-4)b + 2a + 4a + 6b)$

Good Luck!