

Worksheet

10/04/2019

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Problem quickname: 6625

1)

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

a) $4b + 9b - 3b - ((-7)b - 4c + 7b + 7c) = 10b - 3c$

b) $2b - 5a - ((-6)a + 2a) = 2b - a$

c) $4b + 5a - ((-8)a - 8b - 4b) = 13a + 16b$

d) $-9c - 6b - 5c - ((-7)c - 8b + 8c) = 2b - 15c$

e) $-8a - 6c - ((-6)c - 3b - 7c) = 3b - 8a + 7c$

2)

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

a) $b + 6b - ((-4)a - 3b - 3b) - ((-5)a - 5b + 2b) = 9a + 16b$

b) $5b - 10a + 2a - ((-5)c - 9b + 8b) - ((-5)c + 2b + 3b) = b - 8a + 10c$

c) $-3b + b - (5a - 8b - 5c) - ((-4)b + 8b - 10a + 8a) = 2b - 3a + 5c$

d) $-3c + 7b - 10b - 7c - (a - 2a + 8a) - (2c + b) = -7a - 4b - 12c$

e) $-3a + 7c + 8b + 10c - ((-7)b - 3b - 2b + 9a) - (7a + c - 9a) = 20b - 10a + 16c$

3)

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

a) $a + 9d + 5c - ((-7)a - 6a) = 14a + 5c + 9d$

b) $4c + c + 3a - (10b + 8b) = 3a - 18b + 5c$

c) $b - 5b + c - ((-7)b + 3b + 9b + 7b) = c - 16b$

d) $8b - 6c - ((-3)a - 6b + b) = 3a + 13b - 6c$

e) $7c - 9a - 2b - ((-7)b + 6c - 2c) = 5b - 9a + 3c$

4)

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

a) $8e - 3e + 9e - 3d - (7e + 3b + c - 9b) - (e + 10b + 8b + d) = 6e - 12b - c - 4d$

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$$\begin{aligned} \text{b) } & -4b + 7d - 7f - (a + e + d + 9f) - ((-9)b + c - 6e + 8a) \\ & = 5b - 9a - c + 6d + 5e - 16f \end{aligned}$$

$$\begin{aligned} \text{c) } & 9e + 2f + 3c - (e + 3a - 8c - 3b) - (6b + 2e + b) \\ & = 11c - 3a - 4b + 6e + 2f \end{aligned}$$

$$\begin{aligned} \text{d) } & 7f + 2c + c - (7b + 3b + 8e) - ((-7)c - 8d + 9a - 2f) \\ & = 10c - 9a - 10b + 8d - 8e + 9f \end{aligned}$$

$$\begin{aligned} \text{e) } & 3c - 7b + 8e - 6e - (5f + 4e + d) - ((-10)c + 7f + 4a - 3d) \\ & = 13c - 4a - 7b + 2d - 2e - 12f \end{aligned}$$

Good Luck!