

Worksheet

10/04/2019

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Problem quickname: 6625

1)

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

Quick:
6625

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

b) $-2a^3 + 8a^3 - 3b^2 - (c^2 + 2c + 2b) = 6a^3 - 3b^2 - 2b - c^2 - 2c$

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

d) $-2c^2 - 7b^2 - 7b^2 + 10c - ((-5)b + 2c - 9a^3) = 9a^3 - 14b^2 + 5b - 2c^2 + 8c$

e) $7b - 3b + b^2 - (c^2 + c^2 - 7b^2) = 8b^2 + 4b - 2c^2$

2)

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

Quick:
6625

a) $8a^3 + 7a^3 + 7a - (6b - 9a^3 - 9a^3) = 33a^3 + 7a - 6b$

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

c) $6a + 7a + 8a^3 - ((-2)b - 4b^4 - 4b^4) = 8a^3 + 13a + 8b^4 + 2b$

d) $9b^4 + 3a^3 - 7a^3 - (3b - 2a + a^3 - 7b) = 2a - 5a^3 + 9b^4 + 4b$

e) $-10b - 2b + 7a - ((-2)a^3 + 3b - 2a^3) = 4a^3 + 7a - 15b$

3)

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

Quick:
6625

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

b) $4c + 9d + 9c - (7c^2 + 2a) - (d^3 - 2e^2) - ((-4)c + 10a^4 - 6d^3) = 17c - 10a^4 - 2a - 7c^2 + 5d^3 + 9d + 2e^2$

c) $8b^4 + 6c - 2d^3 + 6c - (6e + 8b^4 - 8b - 6e) - ((-10)b + 3d - 4f) - (9c^2 + 6f + 5e^2) = 18b - 9c^2 + 12c - 2d^3 - 3d - 5e^2 - 2f$

d) $-8d^3 - 4d^3 - (6d - 3c) - (7b + 9c - 3d^3) - ((-5)e + 9f + 9b^4) = 5e - 9b^4 - 7b - 6c - 9d^3 - 6d - 9f$

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

4)

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

$$\begin{aligned} \text{a) } & -7b - 9b^2 - 7c - (a^2 + 4a + 4c^2) - (5a^2 + 5c + 7a^2 - 9c) \\ & = -13a^2 - 4a - 9b^2 - 7b - 4c^2 - 3c \end{aligned}$$

$$\text{b) } 4b - 5a^2 - (9b^2 - 8a^2) - ((-8)c^2 + 7c - 5a^2) = 8a^2 - 9b^2 + 4b + 8c^2 - 7c$$

$$\text{c) } -4b^2 + a^2 - (2b + 6c) - ((-7)b^2 - 8b - 5c + 7a^2) = 3b^2 - 6a^2 + 6b - c$$

$$\begin{aligned} \text{d) } & -2c - 9c + 2b^2 + 5b^2 - (4c - 8c + 3a^2 - 9c) - (9b^2 + a - 9b^2 - 6c) \\ & = 7b^2 - 3a^2 - a + 8c \end{aligned}$$

$$\begin{aligned} \text{e) } & 2b - 8c + 6c - (5c^2 + 8b + b^2) - (6b^2 + 3b^2 + 9a) \\ & = -9a - 10b^2 - 6b - 5c^2 - 2c \end{aligned}$$

Good Luck!