Worksheet

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Problem quickname: 6625

<u>1)</u>

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

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

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

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

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

<u>2)</u>

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

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

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

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

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

<u>3)</u>

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

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

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

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

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

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

<u>4)</u>

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

a) $-7b - 9b^2 - 7c - (a^2 + 4a + 4c^2) - (5a^2 + 5c + 7a^2 - 9c)$

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

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

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

e) $2b - 8c + 6c - (5c^2 + 8b + b^2) - (6b^2 + 3b^2 + 9a)$

Good Luck!