

Worksheet

10/21/2019

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Problem quickname: 3291

1)

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

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

2)

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

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

3)

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

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

4)

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

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

Good Luck!