

Worksheet

09/28/2019

Free on dw-math.com

Problem quickname: 6275

1)

Combine like terms to simplify the expression.

Quick:
6275

- a) $6b + 9b - 5b + 8b = 18b$ b) $-7c + 2c + 5b - 7b - 7a = -7a - 2b - 5c$
 c) $6b - 7a + 9c = 6b - 7a + 9c$ d) $-9b + 6c + a - 3b - 9c = a - 12b - 3c$
 e) $-8b - 2b + 7a + 3c + 5b = 7a - 5b + 3c$
 f) $-5b - 4b - 4b - 4c - 10c = -13b - 14c$ g) $9b - 9c - 8b = b - 9c$
 h) $-9b + 10b - 5a + 4b = 5b - 5a$ i) $3b - 6b - 9b - 2b = -14b$
 j) $-5b + 5c - 4b = 5c - 9b$

2)

Combine like terms to simplify the expression.

Quick:
6275

- a) $7a + 7b + 6b + 3b - 6a = a + 16b$
 b) $-9b + 8b - 4b^4 - 10a = -10a - 4b^4 - b$
 c) $5b^4 - 5b - 8b^4 + b = -3b^4 - 4b$ d) $-9b^4 + b^4 - 6a^3 + a^3 = -5a^3 - 8b^4$
 e) $7b - 8a - 9b^4 + 8a^3 = 8a^3 - 8a - 9b^4 + 7b$
 f) $6b^4 + 8a^3 + a^3 - 8b + 2a^3 = 11a^3 + 6b^4 - 8b$
 g) $5a^3 - 4a^3 + 2a - 2a^3 = 2a - a^3$ h) $-4b + 7b + 10a^3 - 7b = 10a^3 - 4b$
 i) $-6b^4 - 7a - 8a^3 + 10a = 3a - 8a^3 - 6b^4$
 j) $-4b - 7a - 8a^3 + 4a^3 = -4a^3 - 7a - 4b$

3)

Combine like terms to simplify the expression.

Quick:
6275

- a) $-3d^3 + 9b^3 + 5a^2 + 4c - 9a^2 - 10c^3 - 3b + 4b^3 + 2c = 13b^3 - 4a^2 - 3b - 10c^3 + 6c - 3d^3$
 b) $-9d^3 - 2c^3 + 8c^3 - 6d + a - 8a^2 - 3b - 5c + 2b^3 + 3d^3 + 3c =$
 $a - 8a^2 + 2b^3 - 3b + 6c^3 - 2c - 6d^3 - 6d$
 c) $d^3 + 7d - 6a - 10c - 3e - 5d^3 + 9c + 6b - 3d^3 - 7b = 7d - 6a - b - c - 7d^3 - 3e$
 d) $-4e - 6a^2 - 4a^2 - 5b^3 - 3c - 5b^3 + 10b^3 - 2a - 4a + c = -10a^2 - 6a - 2c - 4e$
 e) $-3c + e^3 - 7e^3 - 6c + 9c - 6b + 3c^3 - 4d^3 + 5c - 8c^3 = 5c - 6b - 5c^3 - 4d^3 - 6e^3$
 f) $c - 2b + 5b^3 + 6a - 3c + 8d^3 - 7b^3 - 9d^3 - 2e^3 = 6a - 2b^3 - 2b - 2c - d^3 - 2e^3$
 g) $9c^3 + 3d - 2e^3 - 4d + 2e - 9e - 5c^3 + c + 4b + 2e^3 + 8d^3 = 4b + 4c^3 + c + 8d^3 - d - 7e$
 h) $d + 10b - 4c^3 - 5a + 4d + e^3 + 3a^2 + 3b - 7c^3 = 3a^2 - 5a + 13b - 11c^3 + 5d + e^3$
 i) $10e^3 - 7c^3 + 10b - 3d + 6a^2 - 9b + 8a + 10d - 3a^2 = 3a^2 + 8a + b - 7c^3 + 7d + 10e^3$

$$j) \quad -6d^3 + 7e^3 + 2d - 7b^3 - 2b - 9b^3 + 10a^2 - 5c^3 + 2e = \\ 10a^2 - 16b^3 - 2b - 5c^3 - 6d^3 + 2d + 7e^3 + 2e$$

4)

Combine like terms to simplify the expression.

Quick:
6275

a) $-2b - 7b + 8b + 8b - 5c = 7b - 5c$

b) $-6c + 9c + 6a + 2b - 2b - 2a = 4a + 3c$

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

d) $-7b - 2a - 2c - 7b - 4a - 10b - 8b = -6a - 32b - 2c$

e) $2b + 9b - 3b - 10c - 9b + 2b + 7c = b - 3c$

f) $-9c - 5b - 5b - 3b - 7c - 9b + 9b = -13b - 16c$

g) $5a + 6b - 7b - 2b - 2a = 3a - 3b$

h) $3b + 9b + 8c - 3b + 7b + 10b = 26b + 8c$

i) $10b + 6c - 7b + b - 7a + a = 4b - 6a + 6c$

j) $9b + 4a + 10b - 9b + 6b - 10c = 4a + 16b - 10c$

Good Luck!