

Worksheet

10/21/2019

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Problem quickname: 3291

1)Quick:
3291

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

a) $10a + 6b + 4a + b - 2b + b + 2b = 14a + 8b$

b) $-5b + 3c + 3c + b - (4b + 4c + b) = 2c - 9b$

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

d) $-2a + 10a - 9c - 8b - 3b = 8a - 11b - 9c$

e) $3a + a + 5a - 5a + 8b = 4a + 8b$

2)Quick:
3291

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

a) $-9a - 2a + 6b + a - 7a - 9a - 10b - 2b = -26a - 6b$

b) $6a + 6a + 2a - (8b + b + 8b) - (6b + b) = 14a - 24b$

c) $(-2b + 3b - 8a)(4b + a) - 6a + 2b = ab - 8a^2 - 32ab - 6a + 4b^2 + 2b$

d) $3a - 2b - 8a - (9b - 8b) + 9a - 8a - 3a + 8b = 5b - 7a$

e) $(-10b + 4a + 7a - 9a)(b - 7b + 5a) - (4b - 5b) = 10a^2 - 62ab + 60b^2 + b$

3)Quick:
3291

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

a) $9b + 3e - 6a - 7b + 6e - 5e - ((-2)c - 2e - 7d - 10c)$
 $= 2b - 6a + 12c + 7d + 6e$

b) $(8c + 8f + 9d + 8d)((-4)b - 6e)$
 $= -32bc - 68bd - 32bf - 48ce - 102de - 48ef$

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

d) $-8d + 9b - 8d - 4c + 5e + 4e - ((-9)d + 6d + 10c - 3b)$
 $= 12b - 14c - 13d + 9e$

e) $(f + 4b + 7a - 8c)(7d - 3c - 5e + 5d) + 4c + c$
 $= 84ad - 21ac - 35ae - 12bc + 48bd - 20be + 24c^2 - 96cd + 40ce + 5c - 3cf + 12df - 5ef$

4)Quick:
3291

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

$$\text{a) } (10b + 5b + 3a + 3a)((-8)a - 4b) = -48a^2 - 144ab - 60b^2$$

$$\text{b) } a - 5a + 2a + 7a + 5a - 5b - (8a + 7b + 4b) = 2a - 16b$$

$$\text{c) } -8b + a + 2a - (5b - 2a + a) - 6a + b - 3b - 3b = -2a - 18b$$

$$\text{d) } a + 9b + 6a - (9a - 4a + 5b) + 8b + 5a + 5a - 8a = 4a + 12b$$

$$\text{e) } (-6b - 6a + 9b - (7b - 5a))((-4)b + 2a + 4a + 6b) = -6a^2 - 26ab - 8b^2$$

Good Luck!