Name: .....

GreatMathWorksheets

Complete 2 pages (page 211 & 212) within 15 minutes with > 95% accuracy.

Time Taken: ..... Total Score: .....

Level 7
Unit 25.1

More Problems on Adding and Subtracting Algebraic Expressions Part I

1. Simplify the expressions as shown below.

Example:
(5a - 3b) + (3a - b)
= 5a - 3b + 3a - b
= 8a - 4b

a. (2a + b) + (3a + 4b)

b. (5a + 3b) + (7a - 5b)

c. (6a + 5b) + (2a - 8b)

d. (x - 5) + (6x + 3)

e. (7a - 5) + (4a - 5)

f. (4x - 5y) + (8x + y)

g. (3a + b) + (a - 6b)

h. (3a + b) + (-a - 6b)

i. (3a - b) + (-a + 6b)

j. (5a - 3b) + (4a - b)

k. (5a - 3b) + (-4a - b)

l. (5a + 3b) + (-4a + b)

2. Write either '+' or '-' in the boxes (for a to h) and simplify (i to l).

Example:

12 - (7 + 2) = 12 - 7 - 2 = 3
a - (2b + c) = a - 2b - c
12 - (-7 - 2) = 12 + 7 + 2 = 21
a - (-2b - c) = a + 2b + c
-6a - (-a - 5) = -6a + a + 5 = -5a + 5

a. x - (y + z)
= x ☐ y ☐ z

b. x - (y + 2z)
= x ☐ y ☐ 2z

c. 3x - (2y + z)
= 3x ☐ 2y ☐ z

d. 3x - (-2y - z)
= 3x ☐ 2y ☐ z

e. 3x - (2y - z)
= 3x ☐ 2y ☐ z

f. x - (-y + 3z)
= x ☐ y ☐ 3z

g. 7x - (3x + 5)
= 7x - 3x ☐ 5

h. 7x - (3x - 5)
= 7x ☐ 3x + 5

i. 7x - (-3x + 5)

j. -7x - (3x + 5)

k. 9 - (3x - 4)

l. -9 - (-3x + 4)