

SIMPLIFYING ALGEBRAIC EXPRESSIONS

Complete the table below by writing an equivalent expression in the 2nd column and the simplified expression in the 3rd column.

Given Expression	Equivalent Expression	Simplified Expression
1) $(4x + 5y) + (3x + 8y)$		
2) $(5x - 3y) + (2x + 6y)$		
3) $(x + 7y) - (3x + 2y)$		
4) $(4x - 5y) + (-8x + 5y)$		
5) $4x + (3x - 7y)$		
6) $(12x - 3y) + (-8x + 7y)$		
7) $-(4x - 5y) - (3x + 2y)$		

Different Variables

Simplify each of the following expressions.

8) $(4a + 3b - 5c) + (2a - 8b + 12c)$

9) $(4@ + 3\#) + (6@ - 9\#)$

10) $(\Delta + 3\Sigma) - (-3\Delta + 9\Sigma)$