Algebra Review

Collecting Like Terms

a) $4y - 8 - 7y + 6$

b) $6x^2 - 3x + 5y - 8x^2 - 7x - 12y$

Adding and Subtracting Polynomials

a) $(7x + 2) + (4x + 3)$

b) $(2y^2 + 3y + 9) - (-3y^2 + 2y + 7)$

Distribution

a) $2(4x + 5)$

b) $x(4x^2 - 2x + 7)$

c) $5m(m^2 + 4m - 1)$

d) $9m(3m^2 - 4mn) - 5n(m^2 - 6n^2)$

e) $3x^2y(2x^2 + xy^3)$

Multiplying Binomials

a) $(x - 4)(x + 3)$

b) $2(m + 2)(m - 7)$

c) $-3(m - 4)(m + 1)$