

Algebra I Worksheet #3 Unit 10 Selected Solutions

Perform the indicated operations. (Change subtraction to addition.)

$$4. \quad (-3x^2 + 6x + 5) + (-2x^2 - 7x - 8) = -5x^2 - x - 3$$

$$8. \quad (-2x^3 + 5x^2 - x - 6) + (3x^3 - 5x^2 - 3x + 2) = x^3 - 4x - 4$$

$$12. \quad (-x^3 + 3x^2y - 2xy^2 + 7y^3) + (2x^3 + 3x^2y - 7xy^2 - 8y^3) = x^3 + 6x^2y - 9xy^2 - y^3$$

$$16. \quad (x^2 + 8x - 4) - (-6x^2 - 3x - 5) = 7x^2 + 11x + 1$$
$$(x^2 + 8x - 4) + (6x^2 + 3x + 5)$$

$$20. \quad (-5x^3 + 3x^2 + x - 1) - (-6x^3 + x^2 + 5x + 6) = x^3 + 2x^2 - 4x - 7$$
$$(-5x^3 + 3x^2 + x - 1) + (6x^3 - x^2 - 5x - 6)$$

$$23. \quad (x^3 + 5x^2y - 3xy^2 + y^3) - (5x^3 - x^2y + xy^2 - y^3) = -4x^3 + 6x^2y - 4xy^2 + 2y^3$$
$$(x^3 + 5x^2y - 3xy^2 + y^3) + (-5x^3 + x^2y - xy^2 + y^3)$$