

Adding and Subtracting Polynomials

Worksheet Answer Key

Like Terms, or Love Them?

Add or subtract the polynomials.

- | | |
|---|---|
| 1. $(2x^{25} + 3x^{22} + 7x^2) + (4x^{25} + 2x^{22} + 4x^3)$
$6x^{25} + 5x^{22} + 4x^3 + 7x^2$ | 6. $(x^2 + x + 3) - (3x^2 - 2x + 4)$
$-2x^2 + 3x - 1$ |
| 2. $(3x^3 + 2x^2 + 7) + (4x - 3x^3 + 8)$
$2x^2 + 4x + 15$ | 7. $(3x^3 + 4x - 7) - (-2x^3 + 4x - 4)$
$5x^3 - 3$ |
| 3. $(-x^{10} + 14x^7 + 3x + 9) + (-2x^{10} + 4x^7 - 9)$
$-3x^{10} + 18x^7 + 3x$ | 8. $(-10x^4 + 3x^3 + 2x^2 + 4) - (4x^4 + 3x^3 + 4x^2 - 4)$
$-14x^4 - 2x^2 + 8$ |
| 4. $(18x^3 + 14x^2 - 3) + (-3x^3 - 14x^2 + 3)$
$15x^3$ | 9. $(3xy + 2x^2y + 4xy^4) - (2xy - 2x^2y - xy^4)$
$xy + 4xy^4 + 5xy^4$ |
| 5. $(5x^2y + 2xy^2 - 4xy - 7) + (-2x^2y + 3xy^2 - 3xy + 4)$
$3x^2y + 5xy^2 - 7xy - 3$ | 10. $(-15x^2y - 3xy + y^2) - (13x^2y + 4xy + y^2)$
$-28x^2y - 7xy$ |

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