

**Adding, Subtracting, and Multiplying Polynomials**Directions: Simplify each expression. Put final answer in standard form.

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

$$2. (2x^{14} + 2 - x^3) + (6 + x^3 - 3x^{16}) \\ -x^3 + 8$$

$$3. (4x^3 - 8x^{15} + 2x) - (6x^3 + 8x^2 - 6x) \\ -8x^2 - 2x^2 - 8x^3 + 8x$$

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

$$5. (x^3 + 4x + 4) - (8 - 3x + 8x^{14}) \\ -8x^{14} + x^3 + 7x - 4$$

$$6. (6x^3 - 7x^{14} - 2) + (-4x^{14} + x^3 + 5) \\ -3x^{14} + 7x^3 + 3$$

Directions: Find each. Put final answer in standard form.

$$7. (6x + 8)(5x + 5) \\ 30x^2 + 70x + 40$$

$$8. (x - 3)(2x + 4) \\ 2x^2 - 2x - 12$$

$$9. (7x + 8y)(4x + 2y) \\ 28x^2 + 46xy + 16y^2$$

$$10. (x + 4y)(5x + 5y) \\ 5x^2 + 25xy + 20y^2$$

$$11. (4x + 2)(x^2 + 7x - 5) \\ 4x^3 + 30x^2 - 6x - 10$$

$$12. (3x - 4)(4x^2 - 3x - 3) \\ 12x^3 - 25x^2 - 6x + 12$$

$$13. (x^2 + 3x + 2)(2x^2 - 3x - 5) \\ 2x^4 + 3x^3 - 10x^2 - 21x - 10$$

$$14. (3x^2 + 8x - 8)(6x^2 - 4x + 6) \\ 18x^4 + 36x^3 - 62x^2 + 80x - 48$$

# Mcmxciv Instructional Fair Inc Adding And Subtracting Polynomials

**Yan Bai**



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 net ionic equation  $\text{H}^+ \text{aq} + \text{Cl}^- \text{aq} + \text{Na}^+ \text{aq} + \text{HCO}_3^- \text{aq} + \text{Na}^+ \text{aq} + \text{Cl}^- \text{aq} + \text{H}_2\text{O} \text{l} + \text{CO}_2 \text{g} \rightarrow \text{H}^+ \text{aq} + \text{HCO}_3^- \text{aq} + \text{H}_2\text{O} \text{l} + \text{CO}_2 \text{g}$  here is a video on spectator ions  
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web the six  $\text{NO}_3^-$  ions and the six  $\text{Na}^+$  ions that appear on both sides of the equation are spectator ions that can be canceled to give the net ionic equation  $3\text{Ba}^{2+} \text{aq} + 2\text{PO}_4^{3-} \text{aq} \rightarrow \text{Ba}_3(\text{PO}_4)_2 \text{s}$

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web the equation below is the final net ionic equation after elimination of the spectator ions which yields water  $\text{H}^+ \text{aq} + \text{OH}^- \text{aq} \rightarrow \text{H}_2\text{O} \text{l}$  the spectator ions in  $\text{KOH} \text{aq}$  and  $\text{HNO}_3 \text{aq}$  are  $\text{K}^+ \text{aq}$  and  $\text{NO}_3^- \text{aq}$  how to identify and list the

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web the ag aq and cl aq ions become agcl s but the na aq ions and the no 3 aq ions stay as na aq ions and no 3 aq ions these two ions are examples of spectator ions ions that do nothing in the overall course of a chemical reaction

**16 18 net ionic equations chemistry libretexts** - Oct 13 2023

web aug 8 2022 a spectator ion is an ion that does not take part in the chemical reaction and is found in solution both before and after the reaction the net ionic equation is the chemical equation that shows only those elements compounds and ions that are directly involved in the chemical reaction

**which ions if any are spectator ions in the reaction** - Apr 26 2022

web jul 26 2017 answer the spectator ions are explanation in the net ionic equations we are not include the spectator ions in the equations spectator ions the ions present on reactant and product side 16 used to grind chemicals to powder tmraor nda stlepe star 4 4 5 heart 181 verified verified answer food

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web the new format requires students to write balanced chemical equations showing only the reacting substances excluding spectator ions for three different sets of reactants and to answer a short question requiring no calculator about each reaction the questions are intended to test the students understanding of the meaning of the reactions

*spectator ions learn their role in reactions examples* - Mar 26 2022

web jun 2 2023 the spectator ions are cut out from a reaction hence the net ionic equation for the above reaction would be  $2\text{cl aq} + \text{cu}^{2+} \text{aq} \rightarrow \text{cucl}_2 \text{ s}$  these spectator ions are not actively involved in the reaction the existence of spectator ions affects the debye length