

ADDING & SUBTRACTING *Polynomials*

You can add or subtract polynomials by simply combining like terms.

Addition Example

$$(11x - x^2 + 13) + (2x^2 - 23 - 5x)$$

Subtraction Example

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

EXAMPLES

Directions: Find each sum or difference.

13. $(x + 5) + (4x - 7)$

14. $(k^2 - 4k + 7) + (k^2 + 9k - 3)$

15. $(w^3 - 2w^2 - 5) + (3w^2 - 11)$

16. $(9x - 5y) + (3x + 2y - 7)$

17. $(8 - p^2 + 5p) + (p^2 - 15 - 4p)$

18. $(6a^2 - 5a) + (a - 5a + 3a^3)$

19. $(x^2 + 17x) - (3x^2 + 5x)$

20. $(5r - 2s) - (9r - 11s)$

21. $(4c - 11) - (4c + 11)$

22. $(3m^2 + 7m - 1) - (m^2 + 2m - 5)$

23. $(7v - v^2 + 14) - (15 + 8v + v^2)$

24. $(8x - 3y) - (2y - 13 + 5x)$

25. Find the sum of $(8p^2 - 2p + 15)$ and $(11 - 2p^2 - 1)$.

26. Subtract $(2w^2 - 5w + 10)$ from $(w^3 + 6w^2 - 2)$.