Adding and Subtracting Polynomials

Unit 2A: Quadratic Functions - Representations

Simplify each of the given sums or differences.

1. $(8x + 5x^4 + 7x^3) + (4 - 6x - 5x^4)$	2. $(5n^2 - 3n^3 - 7n^4) - (3n^2 - 6n^4 + 3n^3)$
3. $(5k^4 + 4k - 5) + (7k^4 + 8 - 8k)$	4. $(5x - 2x^4 + 8x^2) - (7x^4 + 5x^2 - 8x)$
5. $(1 - 7a^4 - 3a^2) + (4 - 2a^4 + 8a^2)$	6. $(2 - 3v^4 + 6v^3) - (v^4 - 8v - v^3)$
7. $(2 - 8r^2 + 2r) + (6r + 2 + 5r^2)$	8. $(5 + 3r^3 + 3r) - (r^4 - 4r - 4r^3)$
9. $(3b^3 + 7b - 6b^4) + (b^4 - 2 - 6b)$	10. $(6 - 2x^4 - x^2) - (5x^2 + 8x^3 + 2)$

11. $(8x^4 + 3x - 4x^2) + (x + 2x^2 + 4x^4)$	12. $(7v^4 - 5v - 2) - (7v^4 - 3v^3 - 3)$
13. $(6 + p^4 + 5p^3) + (2 + 5p^3 + 8p^4)$	14. $(b^3 + 3b + 2) - (2 - 8b^3 - 6b)$
15. $(8n^3 - 5n^4 + 3n^2) + (6n^2 + 8n^4 + 7n^3)$	16. $(2 - 2r^3 - 8r^4) - (7 - 4r^3 - 6r^4)$
17. $(5n^2 + 8n^4 + 7n^3) + (5n^3 + n^4 - 2n^2)$	18. $(8a - 4 + 5a^4) - (3a^4 - 2 - 8a)$
19. $(b^4 + 2b^2 - 4b^3) + (7b^2 + 4b^4 - 3b^3)$	20. $(3 - 7x^4 - x) - (x + 6 + 5x^2)$