

NAME: _____

P.I. A.A.13: Add and subtract monomials and polynomials

Add:

1. $(5j^5 + j^4 + 4) + (2j^5 - 5j - 1)$

2. $(8n^4 + 2n^2 - 7) + (9n^4 - 3n + 1)$

3. $(7x^3 + 3x^6 - 3) + (7x^6 - 3 - 7x^3)$

[A] $14x^6 - 6$

[B] $10x^6 - 6$

[C] $14x^6 - 10$

[D] $10x^6$

4. $(-7x^2 - 3x^4 - 5) + (-3x^4 + 3 + 9x^2)$

[A] $-6x^4 + 2x^2 - 2$

[B] $-6x^4 + 2x^2 - 8$

[C] $-10x^4 + 4$

[D] $-10x^4 - 2$

5. $(7x^3 - 7x^4 - 9) + (3x^4 - 5 - 3x^3)$

[A] $10x^4 - 12x^3 - 12$

[B] $-4x^4 + 4x^3 - 14$

[C] $10x^4 - 12x^3 - 14$

[D] $-4x^4 + 4x^3 - 4$

6. $(5x^2 + 3x^4 - 7) + (5x^4 + 5 + 9x^2)$

[A] $10x^4 + 8x^2 + 2$

[B] $8x^4 + 14x^2 - 12$

[C] $10x^4 + 8x^2 - 2$

[D] $8x^4 + 14x^2 - 2$

7. $(-3x - 5x^3 + 9) + (7x^3 + 7 + 9x)$

[A] $2x^3 + 6x + 16$

[B] $4x^3 + 2x + 18$

[C] $2x^3 + 6x + 2$

[D] $4x^3 + 2x + 16$

Subtract:

8. $(-2x^3 + 8x) - (7x + 4 + 5x^3)$

9. $(-2x^4 + 4x) - (5x - 6 + 7x^4)$

10. $(3x^2 - 2x - 5) - (-8x^2 - 3x - 1)$

[A] $11x^2 - 5x - 6$

[B] $11x^2 + x - 6$

[C] $11x^2 + x - 4$

[D] $11x^2 - x - 4$

11. $(-6x^2 + x - 7) - (-3x^2 - 7x - 7)$

[A] $-3x^2 + 8x - 14$

[B] $-3x^2 - 8x$

[C] $-3x^2 - 6x - 14$

[D] $-3x^2 + 8x$

12. $(x^2 - 6x + 2) - (3x^2 - 7x - 8)$

[A] $-2x^2 + x - 6$

[B] $-2x^2 - 13x - 6$

[C] $-2x^2 + x + 10$

[D] $-2x^2 - x + 10$

13. $(3x^2 - 8x + 4) - (-x^2 - 4x + 2)$

[A] $4x^2 - 12x + 6$

[B] $4x^2 - 4x + 6$

[C] $4x^2 - 4x + 2$

[D] $4x^2 + 4x + 2$

14. Simplify $(6x^4 + 5x^2 + 4) - (5x^4 + 6x^2 + 3)$.

[A] $x^4 - x^2 + 1$

[B] $11x^4 + 9x^2 + 7$

[C] $x^4 + 11x^2 + 7$

[D] $x^4 + x^2 + 1$

[E] $x^4 - x^2 - 1$

[1] $7j^5 + j^4 - 5j + 3$ _____

[2] $17n^4 + 2n^2 - 3n - 6$ _____

[3] B _____

[4] A _____

[5] B _____

[6] D _____

[7] A _____

[8] $-7x^3 + x - 4$ _____

[9] $-9x^4 - x + 6$ _____

[10] C _____

[11] D _____

[12] C _____

[13] C _____

[14] A _____