

*A.A.13: Add, subtract, and multiply 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]  $x^4 - x^2 - 1$

Integrated Algebra Practice: A.A.13 #3

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[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