

**A.A.13: Addition and Subtraction of Polynomials 1: Add, subtract, and multiply monomials and polynomials**

- 1 The sum of  $3x^2 + x + 8$  and  $x^2 - 9$  can be expressed as
  - 1)  $4x^2 + x - 1$
  - 2)  $4x^2 + x - 17$
  - 3)  $4x^4 + x - 1$
  - 4)  $3x^4 + x - 1$
- 2 The sum of  $3x^2 + 4x - 2$  and  $x^2 - 5x + 3$  is
  - 1)  $4x^2 + x - 1$
  - 2)  $4x^2 - x + 1$
  - 3)  $4x^2 + x + 1$
  - 4)  $4x^2 - x - 1$
- 3 The sum of  $8x^2 - x + 4$  and  $x - 5$  is
  - 1)  $8x^2 + 9$
  - 2)  $8x^2 - 1$
  - 3)  $8x^2 - 2x + 9$
  - 4)  $8x^2 - 2x - 1$
- 4 What is the sum of  $x^2 - 3x + 7$  and  $3x^2 + 5x - 9$ ?
  - 1)  $4x^2 - 8x + 2$
  - 2)  $4x^2 + 2x + 16$
  - 3)  $4x^2 - 2x - 2$
  - 4)  $4x^2 + 2x - 2$
- 5 What is the sum of  $2m^2 + 3m - 4$  and  $m^2 - 3m - 2$ ?
  - 1)  $m^2 - 6$
  - 2)  $3m^2 - 6$
  - 3)  $3m^2 + 6m - 6$
  - 4)  $m^2 + 6m - 2$
- 6 The sum of  $4x^3 + 6x^2 + 2x - 3$  and  $3x^3 + 3x^2 - 5x - 5$  is
  - 1)  $7x^3 + 3x^2 - 3x - 8$
  - 2)  $7x^3 + 3x^2 + 7x + 2$
  - 3)  $7x^3 + 9x^2 - 3x - 8$
  - 4)  $7x^6 + 9x^4 - 3x^2 - 8$
- 7 What is the sum of  $-3x^2 - 7x + 9$  and  $-5x^2 + 6x - 4$ ?
  - 1)  $-8x^2 - x + 5$
  - 2)  $-8x^4 - x + 5$
  - 3)  $-8x^2 - 13x + 13$
  - 4)  $-8x^4 - 13x^2 + 13$
- 8 The sum of  $3x^2 + 5x - 6$  and  $-x^2 + 3x + 9$  is
  - 1)  $2x^2 + 8x - 15$
  - 2)  $2x^2 + 8x + 3$
  - 3)  $2x^4 + 8x^2 + 3$
  - 4)  $4x^2 + 2x - 15$
- 9 The sum of  $8n^2 - 3n + 10$  and  $-3n^2 - 6n - 7$  is
  - 1)  $5n^2 - 9n + 3$
  - 2)  $5n^2 - 3n - 17$
  - 3)  $-11n^2 - 9n - 17$
  - 4)  $-11n^2 - 3n + 3$

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1	ANS: 1	REF: 069904a
2	ANS: 2	REF: 010108a
3	ANS: 2	REF: 080710a
4	ANS: 4	REF: 060805a
5	ANS: 2	REF: 080807a
6	ANS: 3	REF: 061003ia
7	ANS: 1	REF: 011213ia
8	ANS: 2	REF: 081205ia
9	ANS: 1	REF: 081302ia