

NAME: \_\_\_\_\_

1. 080710a, P.I. A.A.13

The sum of  $8x^2 - x + 4$  and  $x - 5$  is

- [A]  $8x^2 - 2x + 9$       [B]  $8x^2 - 1$   
[C]  $8x^2 - 2x - 1$       [D]  $8x^2 + 9$

2. 069904a, P.I. A.A.13

The sum of  $3x^2 + x + 8$  and  $x^2 - 9$  can be expressed as

- [A]  $4x^2 + x - 1$       [B]  $3x^4 + x - 1$   
[C]  $4x^4 + x - 1$       [D]  $4x^2 + x - 17$

3. 080807a, P.I. A.A.13

What is the sum of  $2m^2 + 3m - 4$  and  $m^2 - 3m - 2$ ?

- [A]  $m^2 + 6m - 2$       [B]  $m^2 - 6$   
[C]  $3m^2 + 6m - 6$       [D]  $3m^2 - 6$

4. 010108a, P.I. A.A.13

The sum of  $3x^2 + 4x - 2$  and  $x^2 - 5x + 3$  is

- [A]  $4x^2 + x + 1$       [B]  $4x^2 - x - 1$   
[C]  $4x^2 - x + 1$       [D]  $4x^2 + x - 1$

5. 060805a, P.I. A.A.13

What is the sum of  $x^2 - 3x + 7$  and  $3x^2 + 5x - 9$ ?

- [A]  $4x^2 - 2x - 2$       [B]  $4x^2 + 2x - 2$   
[C]  $4x^2 - 8x + 2$       [D]  $4x^2 + 2x + 16$

6. 080423a, P.I. A.A.13

The expression

$(3x^2 + 2xy + 7) - (6x^2 - 4xy + 3)$  is equivalent to

- [A]  $-3x^2 + 6xy + 4$       [B]  $3x^2 - 2xy + 4$   
[C]  $-3x^2 - 2xy + 4$       [D]  $3x^2 - 6xy - 4$

7. 010707a, P.I. A.A.13

The expression  $(2x^2 + 6x + 5) - (6x^2 + 3x + 5)$  is equivalent to

- [A]  $4x^2 - 3x$       [B]  $-4x^2 - 3x + 10$   
[C]  $-4x^2 + 3x$       [D]  $4x^2 + 3x - 10$

8. 060511a, P.I. A.A.13

The expression  $(x^2 - 5x - 2) - (-6x^2 - 7x - 3)$  is equivalent to

- [A]  $7x^2 - 12x - 5$       [B]  $7x^2 + 2x + 1$   
[C]  $7x^2 - 2x + 1$       [D]  $7x^2 + 2x - 5$

9. 060923ia, P.I. A.A.13

When  $4x^2 + 7x - 5$  is subtracted from  $9x^2 - 2x + 3$ , the result is

- [A]  $-5x^2 + 5x - 2$       [B]  $5x^2 + 5x - 2$   
[C]  $5x^2 - 9x + 8$       [D]  $-5x^2 + 9x - 8$

10. 010019a, P.I. A.A.13

When  $3a^2 - 2a + 5$  is subtracted from  $a^2 + a - 1$ , the result is

- [A]  $-2a^2 + 3a - 6$       [B]  $2a^2 - 3a + 6$   
[C]  $2a^2 - 3a - 6$       [D]  $-2a^2 + 3a + 6$

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11. 060019a, P.I. A.A.13

If  $2x^2 - 4x + 6$  is subtracted from  $5x^2 + 8x - 2$ , the difference is

- [A]  $3x^2 + 12x - 8$       [B]  $3x^2 + 4x + 4$   
[C]  $-3x^2 - 12x + 8$       [D]  $-3x^2 + 4x + 4$

12. 080819a, P.I. A.A.13

When  $3g^2 - 4g + 2$  is subtracted from  $7g^2 + 5g - 1$ , the difference is

- [A]  $-4g^2 - 9g + 3$       [B]  $4g^2 + 9g - 3$   
[C]  $4g^2 + g + 1$       [D]  $10g^2 + g + 1$

13. 080020a, P.I. A.A.13

When  $3x^2 - 2x + 1$  is subtracted from  $2x^2 + 7x + 5$ , the result will be

- [A]  $-x^2 + 5x + 6$       [B]  $-x^2 + 9x + 4$   
[C]  $x^2 + 5x + 6$       [D]  $x^2 - 9x - 4$

14. 080209a, P.I. A.A.13

When  $-2x^2 + 4x + 2$  is subtracted from  $x^2 + 6x - 4$ , the result is

- [A]  $3x^2 + 2x - 6$       [B]  $2x^2 - 2x - 6$   
[C]  $-x^2 + 10x - 2$       [D]  $-3x^2 - 2x + 6$

15. 010429a, P.I. A.A.13

If  $2x^2 - x + 6$  is subtracted from  $x^2 + 3x - 2$ , the result is

- [A]  $-x^2 + 2x - 8$       [B]  $x^2 + 2x - 8$   
[C]  $-x^2 + 4x - 8$       [D]  $x^2 - 4x + 8$

16. 010523a, P.I. A.A.13

When  $3x^2 - 8x$  is subtracted from  $2x^2 + 3x$ , the difference is

- [A]  $-x^2 - 5x$       [B]  $-x^2 + 11x$   
[C]  $x^2 - 5x$       [D]  $-x^2 - 11x$

17. 010619a, P.I. A.A.13

When  $3a^2 - 7a + 6$  is subtracted from  $4a^2 - 3a + 4$ , the result is

- [A]  $a^2 - 10a - 2$       [B]  $-a^2 - 4a + 2$   
[C]  $7a^2 - 10a + 10$       [D]  $a^2 + 4a - 2$

18. 080123a, P.I. A.A.13

Subtract  $5x^2 - 7x - 6$  from  $9x^2 + 3x - 4$ .

19. 010934a, P.I. A.A.13

Subtract  $2x^2 - 5x + 8$  from  $6x^2 + 3x - 2$  and express the answer as a trinomial.

[1] B \_\_\_\_\_

[2] A \_\_\_\_\_

[3] D \_\_\_\_\_

[4] C \_\_\_\_\_

[5] B \_\_\_\_\_

[6] A \_\_\_\_\_

[7] C \_\_\_\_\_

[8] B \_\_\_\_\_

[9] C \_\_\_\_\_

[10] A \_\_\_\_\_

[11] A \_\_\_\_\_

[12] B \_\_\_\_\_

[13] B \_\_\_\_\_

[14] A \_\_\_\_\_

[15] C \_\_\_\_\_

[16] B \_\_\_\_\_

[17] D \_\_\_\_\_

[2]  $4x^2 + 10x + 2$ , and appropriate work is shown, such as  $(9x^2 + 3x - 4) - (5x^2 - 7x - 6)$ .

[1] The setup is correct, but the distribution of the negative sign is incorrect.

or [1]  $14x^2 - 4x - 10$ , but appropriate work is shown.

or [1]  $4x^2 + 10x + 2$ , but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[18] incorrect procedure. \_\_\_\_\_

[2]  $4x^2 + 8x - 10$ , and appropriate work is shown.

[1] Appropriate work is shown, but one computational error is made.

or [1] Appropriate work is shown, but one conceptual error is made, such as not distributing the negative sign or subtracting in the wrong order.

or [1]  $4x^2 + 8x - 10$ , but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.

[19] \_\_\_\_\_