

03A - Practice: Addition and Subtraction of Polynomials

For 1 – 4, evaluate the polynomial at the given value.

1. $5 - 3x; x = 2$	2. $7 - 4x; x = -2$
3. $-4x^2 - 2x + 1; x = -3$	4. $4x^2 - 5x - 2; x = -2$

For 5 – 14, perform the indicated operation.

5. $(8x + 1) + (7x + 2)$	6. $(7 - 5x) + (-2 - 3x)$
7. $(-4x^2 - 2x + 3) + (-5x^2 - 2x + 8)$	8. $(12x + 4) - (5x + 3)$

9. $(7x - 4) - (5x - 2)$	10. $(-3x^2 + 2x - 5) - (4x^2 - 6x + 1)$
11. $(4x^3 - 7x^2 + 2x - 1) + (5x - 2x^2 - 6)$	12. $(-5x^2 - 3x + 8) - (-4x^2 + 3x - 2)$
13. $(12x^2 - 4x - 2) - (7x^2 + 6x - 8)$	14. $(5x^2 - 7x + 6) - (-3x^2 - 2x + 5)$

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Answers:

1. -1

2. 15

3. -29

4. 24

5. $15x + 3$

6. $5 - 8x$

7. $-9x^2 - 4x + 11$

8. $7x + 1$

9. $2x - 2$

10. $-7x^2 + 8x - 6$

11. $4x^3 - 9x^2 + 7x - 7$

12. $-x^2 - 6x + 10$

13. $5x^2 - 10x + 6$

14. $8x^2 - 5x + 1$