

Simplifying Expressions and Solving Equations

Algebra Review 2

Add.

1. $(5x + 9) + (x - 8)$
2. $(x - 3y) + (x - y)$
3. $(3x^2 - 2) + (x^2 + 10)$
4. $(x^2 + 6x - 1) + (2x^2 - 4)$
5. $(x^3 - x^2) + (5x^2 - 3x) + (2x - 8)$

Subtract.

6. $(11x + 3) - (4x - 1)$
7. $(7x - 7y) - (x - 7y)$
8. $(x^2 - 8x) - (2x^2 + 3x)$
9. $(3x^3 + 2y^3 - z^3) - (x^3 + y^3 - z^3)$

Multiply.

10. $(x + 12)(x + 2)$
11. $(3x + 4)(2x - 5)$
12. $(4x + 1)(4x - 1)$
13. $(x - 3)(x^2 - 7x - 2)$
14. $(x + y)(x^2 - xy + y^2)$
15. $(x + 2)(x - 3)(x + 6)$
16. $(x - 5)^2$
17. $(10x - 1)^2$
18. $(x + 2)^3$