

1. Simplify $(4x^3 - 6x^2 + 9) + (2x^3 - 3x^2 + 71)$ $6x^3 - 9x^2 + 80$	2. Simplify $(3a^3 + 9a^2 + 6a) - (2a^3 + a^2 - 4a)$ $a^3 + 8a^2 + 2a$
3. Simplify $(3x^2 - 4) + (4x^2 + 2x - 1)$ $7x^2 + 2x - 5$	4. Simplify $(x^2 + 8x - 13) - (4x^2 - 5x - 8)$ $-3x^2 + 13x - 5$
5. Find the GCF $6x^5 + 24x^4 + 8x^3$ $2x^3$	6. Find the GCF $12x^5y^4 + 20x^4y^3 - 8x^3y^3$ $4x^3y^3$
7. Factor out the GCF $4x^5 + 20x^4 + 8x^3$ $4x^3(x^2 + 5x + 2)$	8. Factor out the GCF $6x^5 + 24x^4 + 8x^3$ $2x^3(3x^2 + 12x + 4)$
9. Simplify $4x(x^2 + 6)$ $4x^3 + 24x$	10. Simplify $-2x^3(x^2 + 3x - 4)$ $-2x^5 - 6x^4 + 8x^3$

11. Simplify

$$(3x + 7)(x + 5)$$

$$3x^2 + 22x + 35$$

12. Simplify

$$(2x + 1)(4x - 3)$$

$$8x^2 - 2x - 3$$

13. Simplify

$$(x + 2)(2x^2 - 3x + 2)$$

$$2x^3 + x^2 - 4x + 4$$

14. Simplify

$$(2x^2 - 9x + 11)(2x + 1)$$

$$4x^3 - 16x^2 + 13x + 11$$