

Long Division with Polynomials (ALG.POL.06)

Divide using polynomial long division.

1. $(7x^3 + 23x^2 - 9x + 44) \div (x + 4)$

2. $(5x^3 - 22x^2 + 23x - 8) \div (x - 3)$

3. $(24x^3 - 22x^2 + x + 2) \div (3x - 2)$

4. $(x^4 - 6x^3 - 5x^2 + 33x - 18) \div (x - 6)$

5. $(2x^5 + 5x^4 - 6x^3 - 15x^2 + 10x + 29) \div (2x + 5)$

6. $(x^7 - 7x^4 + 3x^3 + 10x - 6) \div (x^3 - 2)$

7. $(x^5 - 9x^3 - 2x^2 + 10x + 19) \div (x^2 - 8)$

8. $(x^8 - 3x^6 + 15x^4 - 15x^2 + 45) \div (x^4 + 5)$

9. $(33x^4 + 38x^3 - 9x^2 + 32x - 14) \div (3x^2 + 4x - 2)$

10. $(15x^5 - 42x^4 + 49x^3 - 51x^2 + 28x - 16) \div (3x^2 - 3x + 2)$

11. $(12x^8 + 28x^6 - 83x^4 - 51x^2 + 108) \div (2x^4 + 5x^2 - 9)$

12. $(8x^8 - 22x^7 - 16x^6 + 60x^5 + 36x^4 - 123x^3 - 23x^2 + 74x + 13) \div (4x^3 - 11x^2 + 8)$