

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

$$\begin{array}{r} x^2 + 0x - 1 \\ x^2 - 1 \end{array}$$

2. $\frac{2x^3 - 5x^2 - 28x + 15}{x - 4}$

$$2x^2 + 3x - 16 + \frac{-49}{x - 4}$$

3. $3x^3 - 13x^2 - 34x + 24 \div (x - 6)$

$$3x^2 + 5x - 4$$

4. $x^4 + 2x^3 + 2x^2 - 2x - 3 \div (x + 1)$

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

5. $x^4 + x^3 - 3x^2 - x + 1 \cdot (x - 1)^{-1}$

$$x^3 + 2x^2 - 1x - 2 + \frac{-1}{x - 1}$$

6. $x^3 + 15x^2 + 71x + 105 \div (x + 7)$

$$x^2 + 8x + 15$$

$$7. x^4 - 2x^2 - x + 7 \cdot (x - 7)^{-1}$$

$$8. \frac{2x^3 + 3x - 9}{x + 4}$$

$$x^3 + 7x^2 + 47x + 328 + \frac{2303}{x-7}$$

$$2x^2 - 8x + 35 + \frac{-149}{x+4}$$

$$9. x^5 - 2x^4 + 4x^3 - 8x^2 - 5x + 10 \div (x - 2)$$

$$x^4 + 0x^3 + 4x^2 + 0x - 5$$

$$x^4 + 4x^2 - 5$$

$$10. x^6 - 3x^2 - 4x + 1 \div (x - 3)$$

$$x^5 + 3x^4 + 9x^3 + 27x^2 + 78x + 230 + \frac{691}{x-3}$$