

Functions F5 – Dividing Polynomials

Find the Quotient (No remainder)

$$1. \quad x - 2 \overline{) x^3 + x^2 - 5x - 2}$$

$$2. \quad x + 4 \overline{) 2x^3 + 7x^2 + x + 20}$$

$$3. \quad 2x + 1 \overline{) 4x^3 + 14x^2 - 4x - 5}$$

$$4. \quad x - 2 \overline{) x^3 - 3x - 2}$$

$$5. \quad x^2 + 1 \overline{) x^4 + 4x^3 - 2x^2 + 4x - 3}$$

$$6. \quad x^3 - 4 \overline{) x^6 + 2x^5 - 5x^4 + 4x^3 - 8x^2 + 20x - 32}$$

Find the Quotient and Remainder

$$7. \quad \frac{x^2 - 4x + 3}{x + 1}$$

$$8. \quad \frac{x^3 - 2x^2 - 6x + 5}{x + 3}$$