

## More Practice: Dividing Polynomials

Find the Quotient (No remainder)

$$1. \quad x + 1 \overline{)x^3 + 4x^2 + 7x + 4}$$

$$2. \quad x - 2 \overline{)3x^3 - 10x^2 + 11x - 6}$$

$$3. \quad 2x - 3 \overline{)4x^3 - 12x^2 + 11x - 3}$$

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

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

$$6. \quad \frac{x^4 + 4x^3 + 2x^2 - 13x - 30}{(x+3)(x-2)}$$

Find the Quotient and Remainder

$$7. \quad \frac{x^2 + 5x + 3}{x + 2}$$

$$8. \quad \frac{x^3 + 2x^2 + 4x + 1}{x + 1}$$