

Dividing Polynomials

Name: _____

Period: _____

Directions: Divide each pair of polynomials. **Show all work.**

1. $(x^3 + 8x^2 + 7x - 10) \div (x + 2)$

2. $(x^3 - 7x^2 + 20x - 32) \div (x - 4)$

3. $(3x^3 + 11x^2 - 19x + 7) \div (x + 5)$

4. $(x^4 + 2x^3 - 13x^2 + 16x - 12) \div (x - 2)$

5. $(4x^4 + 2x^3 - 28x + 19) \div (2x - 3)$

6. $(6x^4 + 7x^3 + 11x - 6) \div (3x - 1)$