

Algebra 2

Unit 5.2 I Can Sheet – Dividing Polynomials

Standards: CNE.5

I can...

- Divide polynomials by monomials (using exponent rules)
- Explain the process for long & synthetic division
- Accurately divide using both methods
- Properly write the remainders (if necessary)

Items in bold should be turned in to me or placed in your binder.

_____ **video notes (2)**

_____ **worksheet**

_____ extra video

_____ book assignment

_____ pre-mc

_____ **mastery check**

Pre-MC:

Divide using long division.

1. $(4x^4 + 5x - 4) \div (x^2 - 3x - 2)$

Divide using synthetic division.

2. $(4x^2 - 13x - 5) \div (4x - 2)$

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3. $(x^4 + 4x^3 + 16x - 25) \div (x + 5)$

Factor completely given the polynomial $f(x)$ and the factor of $f(x)$.

4. $(x^3 + 5x^2 + 5x - 12) \div (x + 4)$