

6.7 Division of a polynomial

Divide and reduce.

$$1. \frac{8x^2 - 14x + 1}{2}$$

$$2. \frac{12x^3 + 3x^2 - 9x}{3x^2}$$

$$3. \frac{10x^2y + 25xy + 3y^2}{5xy^2}$$

The Division Algorithm

*** You MUST put in a $0x^n$ if an x^n term is missing!***

4. $\frac{4x^3 - 7x - 5}{2x + 1}$ or $(4x^3 - 7x - 5) \div (2x + 1)$

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

$$6. (x^3 + 4x^2 - 5) \div (x^2 + x - 1)$$

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