Name: _____ Class: _____ Date: _____ ID: A

Long Division with Polynomials - Round 2

Divide using long division. Write remainders as fractions.

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1. $3x+5\overline{\big)\,9x^2+9x-18}$

.

2. $2x^2-4x-3\overline{\big)\,12x^3-34x^2+5x+11}$

.

3. $\dfrac{8x^3+27}{2x+3}$

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4. $\dfrac{6x^3+2x^2-54x-8}{x-3}$

.

5. $(x^3-10x+50)\div(x+5)$

.

6. When polynomial *g(x)* is divided by a binomial, the result is $2x-3+\dfrac{3}{x+5}$. What is *g(x)?*