**Operations with Polynomials Formative Assessment** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_

**Classify the polynomial by both the number of terms and the degree. Use two letters for each question.**

1. $5x^{3}-9x^{2}+3$

Term(s): monomial binomial trinomial polynomial

Degree: \_\_\_\_\_\_\_\_\_\_\_\_\_

1. $8x+7$

Term(s): monomial binomial trinomial polynomial

Degree: \_\_\_\_\_\_\_\_\_\_\_\_\_

1. $-4x+2-10x^{5}+x^{3}$

Term(s): monomial binomial trinomial polynomial

Degree: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Perform the indicated operation.**

1. $\left(3x^{2}-4x-14\right)+(-6x^{2}+12x-14)$ 5. $(3x+1)(7x-1)$
2. $\left(8x^{2}+4x-2\right)-(9x^{2}-3)$ 7. $(2x-3)(x^{2}-5x+6)$