Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_

# WS 8-1

# Adding and Subtracting Polynomials

1. What is a polynomial?
2. What is the difference between a monomial and a binomial?
3. What does it mean for a polynomial to be in standard form?

*For the following problems state the degree of the polynomial and its leading coefficient*

4.  5. 

6.  7. 

*Fill in the missing information in the table*

|  |  |  |  |
| --- | --- | --- | --- |
| **Polynomial** | **Degree** | **Classified by Degree** | **Classified by Number of Terms** |
| 8 |  |  | Monomial |
|  | 1 | Linear |  |
|  |  |  | Trinomial |
|  | 3 |  |  |

*Add the following Polynomials and write the result in standard form.*

16.  17.

18.  19. 

*Subtract the following Polynomials and write the result in standard form.*

20.  21. 

22.  22. 