**Identify the characteristics:**

|  |  |
| --- | --- |
| 1.

Standard Form:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Leading Coefficient:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Constant:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Name polynomial by degree and # of terms:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1.

Standard Form:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Leading Coefficient:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Constant:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Name polynomial by degree and # of terms:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Classify Polynomials by Degree and Terms**

|  |  |  |
| --- | --- | --- |
| 1.

Degree Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_# of Terms Name:\_\_\_\_\_\_\_\_\_\_\_ | 1.

Degree Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_# of Terms Name:\_\_\_\_\_\_\_\_\_\_\_ | 1.

Degree Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_# of Terms Name:\_\_\_\_\_\_\_\_\_\_\_ |

**Combining Functions**

**Let , , and  to find the following:**

|  |  |  |
| --- | --- | --- |
| 1.
 | 1.
 | 1.
 |
| 1.
 | 1.
 | 1.
 |
| 1.
 | 1.
 | 1.
 |

**Use the Binomial Theorem and Pascal’s Triangle to expand the binomial**

|  |  |
| --- | --- |
| 1.
 | 1.
 |
| 1.
 | 1.
 |
| 1.
 | 1.
 |

**\*\*Create Pascal’s Triangle here to help with #15-20\*\***