**Identify the characteristics:**

|  |  |
| --- | --- |
| Standard Form:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Leading Coefficient:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Constant:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Name polynomial by degree and # of terms:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Standard Form:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Leading Coefficient:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Constant:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Name polynomial by degree and # of terms:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Classify Polynomials by Degree and Terms**

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

**Combining Functions**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

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

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |

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