Quiz 3.2 – Polynomial Functions I

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Section: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Part I

Instructions: Identify if the given function is a polynomial function or not. If it is, write the degree on the blank before the number, if it is not, write, “Not.”

\_\_\_\_\_\_\_\_\_\_ 1)

\_\_\_\_\_\_\_\_\_\_ 2)

\_\_\_\_\_\_\_\_\_\_ 3)

\_\_\_\_\_\_\_\_\_\_ 4)

\_\_\_\_\_\_\_\_\_\_ 5)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Part II

Instructions: Evaluate using synthetic division. Box/Highlight your final answer for each number.

|  |
| --- |
| 1) |
| 2) |

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Part III

Instructions: Given the polynomial functions and divisors indicated below, find the remainders for each indicated divisor and indicate if the divisor is a factor not.

1)

|  |  |  |
| --- | --- | --- |
| **Divisor** | **Remainder** | **Factor/Not** |
|  |  |  |
|  |  |  |
|  |  |  |

2)

|  |  |  |
| --- | --- | --- |
| **Divisor** | **Remainder** | **Factor/Not** |
|  |  |  |
|  |  |  |