Math 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mod 1, Day 5 Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_

1. Multiply each of the following expressions.

|  |  |  |
| --- | --- | --- |
| a) | b) | c)  |
| d)  | e)  | f)  |

1. Solve for x.

|  |  |  |
| --- | --- | --- |
| a) | b) | c) |
| d)  | e)  | f)  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1. Given each table,
* Determine whether the function is linear, exponential, or quadratic, and explain how you know.
* Determine both the recursive and explicit formulas.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| a)

|  |  |
| --- | --- |
| *x* | *f*(*x*) |
| -1 | -7 |
| 0 | -4 |
| 1 | -1 |
| 2 | 2 |

Type:Reason:Recursive:Explicit: | b)

|  |  |
| --- | --- |
| *x* | *f*(*x*) |
| -1 | 9 |
| 0 | 7 |
| 1 | 9 |
| 2 | 15 |

Type:Reason:Recursive:Explicit: | c)

|  |  |
| --- | --- |
| *x* | *f*(*x*) |
| -1 | 4 |
| 0 | -20 |
| 1 | 100 |
| 2 | -500 |

Type:Reason:Recursive:Explicit: |

 |
|

|  |
| --- |
| 4. Determine the domain and range for the relation. |
|  Domain:Range:   |

 |  |

4. Fill in the table and graph each quadratic.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| a)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| x | -3 | -2 | -1 | 0 | 1 |
| y |  |  |  |  |  |

 | b)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| x | 2 | 3 | 4 | 5 | 6 |
| y |  |  |  |  |  |

 |  c)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| x | -5 | -4 | -3 | -2 | -1 |
| y |  |  |  |  |  |

 |
| a)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| x | 1 | 2 | 3 | 4 | 5 |
| y |  |  |  |  |  |

 | b)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| x | 0 | 1 | 2 | 3 | 4 |
| y |  |  |  |  |  |

 |  c)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| x | -8 | -6 | -4 | -2 | 0 |
| y |  |  |  |  |  |

 |