Financial Algebra Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Math Day 6 Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_

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

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| a)

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

Type:Reason:Recursive:Explicit: | b)

|  |  |
| --- | --- |
| *x* | *f*(*x*) |
| -1 | -78 |
| 0 | -66 |
| 1 | -54 |
| 2 | -42 |

Type:Reason:Recursive:Explicit: | c)

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

Type:Reason:Recursive:Explicit: |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 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.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| a)

|  |  |
| --- | --- |
| *x* | *f*(*x*) |
| -1 | 7 |
| 0 | -2 |
| 1 | -11 |
| 2 | -20 |

Type:Reason:Recursive:Explicit: | b)

|  |  |
| --- | --- |
| *x* | *f*(*x*) |
| -1 | 24 |
| 0 | 12 |
| 1 | 6 |
| 2 | 3 |

Type:Reason:Recursive:Explicit: | c)

|  |  |
| --- | --- |
| *x* | *f*(*x*) |
| -1 | 6 |
| 0 | 42 |
| 1 | 294 |
| 2 | 2058 |

Type:Reason:Recursive:Explicit: |

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 |

4. Fill in the table and graph each function.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| a)

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

 | b)

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

 |  c)

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

 |
| a)

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

 | b)

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

 |  c)

|  |  |  |  |
| --- | --- | --- | --- |
| x | -5 | -4 | -3 |
| y |  |  |  |

 |