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 |  |  |  |  |  | |