

Name: _____ Period: _____ Number: _____

1.2 Assignment – Explicit and Recursive Formulas

Find the recursive and/or explicit formulas from the things you're given. Making a table helps – they're the breath of life 😊

Write a recursive and explicit formula for each of the sequences.

1) -4, -6, -8, -10... Recursive: _____ Explicit: _____	2) 84, 71, 58, 45... Recursive: _____ Explicit: _____
3) 19, 13, 7, 1... Recursive: _____ Explicit: _____	4) 9, 17, 25, 33... Recursive: _____ Explicit: _____
5) -3, -1, 1, 3... Recursive: _____ Explicit: _____	6) 110, 88, 66, 44... Recursive: _____ Explicit: _____

Given the recursive formula, write the explicit formula.

7) $f(x) = f(x - 1) + 6, f(1) = 0$

Explicit: _____

8) $f(x) = f(x - 1) + 2, f(3) = -4$

Explicit: _____

9) $f(x) = f(x - 1) - 4, f(2) = 4$

Explicit: _____

Given the explicit formula, write the recursive formula.

10) $f(x) = 3x - 1$

Recursive: _____

11) $f(x) = 4x + 3$

Recursive: _____

12) $f(x) = -5x + 2$

Recursive: _____