Name _____ Date _____

Explicit Expressions and Recursive Processes - Matching Worksheet

Write the letter of the answer that matches the problem.

_____ 1. Given the recursive formula, write the explicit formula for the sequence.
$t_1 = 0$
$t_n = t_{n-1} - 4$

_____ 2. Given the explicit formula, write the recursive formula for the sequence.
$t_n = 4n - 1$

_____ 3. Given the recursive formula, write the explicit formula for the sequence.
$t_1 = 0$
$t_n = t_{n-1} - 6$

_____ 4. Write a recursive formula for the following sequences.
3, 8, 13, 18…

_____ 5. Given the recursive formula, write the explicit formula for the sequence.
$t_1 = 0$
$t_n = t_{n-1} - 9$

_____ 6. Given the explicit formula, write the recursive formula for the sequence.
$t_n = 7n - 1$

a. $-9(n-1)$

b. $-4(n-1)$

c. $t_1 = 6$,
$t_n = t(n-1) + 7$

d. $-6(n-1)$

e. $t_1 = 3$, $t_n = t_{(n-1)} + 4$

f. $a_1 = 3$
$a^n = a_{n-1} + 5$