HW 6-1
Secondary 3

Name: Selected Answers
Date: _____ Class: A3 + B7

Directions: For each of the following tables:

a) Describe how to find the next term in the sequence.

b) Find the next term in the table.

c) Write a recursive rule for the function.

d) Write an explicit rule for the function.

1)

x	y	
0	5	
1	10	+5
2	15	+5
3	20	+5
4	?	+5
...	...	
n	?	

a) To find the next term, Add 5

b) Next term in table: 25

c) Recursive Rule: $f(0) = 5$ $f(n) = f(n-1) + 5$

d) Explicit Rule: $f(n) = 5 \cdot n + 5$

2)

x	y
0	8
1	6
2	4
3	2
4	?
...	...
n	?

a) To find the next term, _____

b) Next term in table: _____

c) Recursive Rule: _____

d) Explicit Rule: _____

3)

x	y	
0	8	
1	9	+1
2	10	+1
3	11	+1
4	?	+1
...	...	
n	?	

a) To find the next term, Add 1

b) Next term in table: 12

c) Recursive Rule: $f(0) = 8$ $f(n) = f(n-1) + 1$

d) Explicit Rule: $f(n) = 1 \cdot n + 8$

4)

x	y
0	-5
1	-1
2	3
3	7
4	?
...	...
n	?

a) To find the next term, _____

b) Next term in table: _____

c) Recursive Rule: _____

d) Explicit Rule: _____

What is the 0th term?

Find the 25th term in each of the following sequences

5) 1, 4, 7, 10,...

+3 +3 +3 +3

0th term: -2

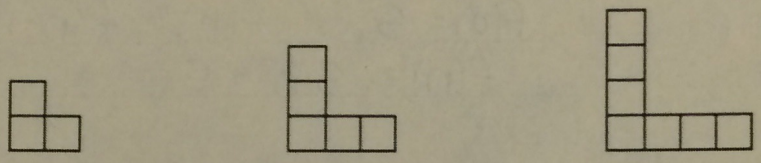
$d = 3$

$f(n) = 3(n) - 2$

$f(25) = 3(25) - 2 = \boxed{73}$

6) 12, 18, 24, 30, ...

7) Given the following pattern answer the questions



$n = 1$ $n = 2$ $n = 3$

a) To find the next term, _____

b) blocks at n=6? _____

c) Recursive Rule: _____

d) Explicit Rule: _____