19. Consider the sequence: 7, 11, 15, 19, ...

a) What is the explicit rule?

$a_n = 7 + 4(n-1)$

b) What is the recursive rule?

$a_n = a_{n-1} + 4$

$a_1 = 7$

c) find the next 4 terms in the sequence.

7, 11, 15, 19, 23, 27, 31, 35...

20. Consider the sequence: 3, 9, 27, 81, ...

a) What is the explicit rule?

$a_n = 3(3)^{n-1}$

b) What is the recursive rule?

$a_n = 3 \cdot a_{n-1}$

$a_1 = 3$

c) Find the next 4 terms in the sequence.

3, 9, 27, 81, 243, 729, 2187, 6561...

Find the first 5 terms of each sequence.

21. Given $a_n = a_{n-1} + 7$ and $a_1 = 5$

5, 12, 19, 26, 33...

$a_1 = 5$

$a_2 = 5 + 7 = 12$

$a_3 = 12 + 7 = 19$

$a_4 = 19 + 7 = 26$

$a_5 = 26 + 7 = 33.$

22. Given a(n) = 2a(n-1) and a(1) = 14

2(previous term)

14, 28, 56, 112, 224

$a(1) = 14$

$a(2) = 14(2) = 28$

$a(3) = 28(2) = 56$

$a(4) = 56(2) = 112$

$a(5) = 112(2) = 224$