Algebra II Worksheet #1 Unit 9 Selected Homework Solutions

Use the given formula to write the first five terms of each of the following sequences.

1.
$$a_1 = 5$$
; $a_{n+1} = a_n + 3$

3.
$$a_1 = 1$$
; $a_{n+1} = 2a_n$

5.
$$a_n = 3n + 5$$

8.
$$a_n = 4(0.5^n)$$

10.
$$a_n = 0.5n(n+1)$$

Write a recursive formula for each of the following sequences.

$$a_1 = 3$$
; $a_{n+1} = a_n + 3$

$$a_1 = 2$$
; $a_{n+1} = 2a_n$

Write an explicit formula for each of the following sequences.

$$a_n = 4n + 3$$

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