FST Name:

PS 4.2 Date: Block:

***Problem Set 4.2***

**1 – 3] Give the recursive and explicit notation for the arithmetic sequence.**

1.) $7, 13, 19, 25, . . . $ 2.) $-3, -10, - 17, - 24, - 31, . . .$ 3.) 

Recursive: Recursive: Recursive:

Explicit: Explicit: Explicit:

4.) What is the 143th term of the sequence in number 2?

5.) Find the **explicit formula** for the arithmetic sequence where a24 = 187 and the common difference is 3.

6.) Find the **explicit formula** for the arithmetic sequence where $a\_{10} = -26 and a\_{20}= -56.$

7.) Find the **explicit formula** for the arithmetic sequence where b4 = 19, b5 = 15, and b6 = 11.

8.) Find the **explicit formula** for the arithmetic sequence where a7 = 4 and a12 = -9.

9.) Sol LeWitt’s sculpture *Four-Sided Pyramid* in the National Gallery of Art Sculpture Garden is made of concrete blocks. As shown in the diagram below, each layer has 8 more visible blocks than the layer in front of it. Write an explicit formula that gives the number of visible blocks in the nth layer where n = 1 represents the front layer.

